



August 29, 2003

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Mason
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Federal 1-12-9-17, 3-12-9-17, 5-12-9-17, 7-12-9-17, 9-12-9-17, 11-12-9-17, 13-12-9-17, and 15-12-9-17.

Dear Diana:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier
Regulatory Specialist

mc
enclosures

RECEIVED
SEP 02 2003
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No.
U-39713

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement, Name and No.
N/A

8. Lease Name and Well No.
Federal 9-12-9-17

9. API Well No.
43-047-35166

10. Field and Pool, or Exploratory
~~Monument Butte~~ Eagle Mts N Flot

11. Sec., T., R., M., or Blk. and Survey or Area
NE/SE Sec. 12, T9S R17E

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
Inland Production Company

3a. Address
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface NE/SE 1980' FSL 663' FEL 4432920 Y 40,04363
At proposed prod. zone 589814 X -109,94718

14. Distance in miles and direction from nearest town or post office*
Approximatley 17.5 miles southeast of Myton, Utah

12. County or Parish
Uintah

13. State
UT

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) Approx. 663' l/lse, NA f/unit

16. No. of Acres in lease
1,120.00

17. Spacing Unit dedicated to this well
40 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. Approx. 2596'

19. Proposed Depth
6500'

20. BLM/BIA Bond No. on file
#4488944

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5077' GR

22. Approximate date work will start*
4th Quarter 2003

23. Estimated duration
Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
Mandie Crozier

Name (Printed/Typed)
Mandie Crozier

Date
8/29/03

Title
Regulatory Specialist

Approved by (Signature)

Federal Approval of this
Action is Necessary

Name (Printed/Typed)
BRADLEY G. HILL
On file ENVIRONMENTAL SCIENTIST III

Date
09-04-03

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

RECEIVED

SEP 02 2003

DIV. OF OIL, GAS & MINING

INLAND PRODUCTION COMPANY

Rebar

N89°58'W - 80.10 (G.L.O.)

1910 Brass Cap

589°52'45"W - 2642.31' (Meas.)

N89°56'49"W - 2642.73' (Meas.)

1910 Brass Cap

N00°01'50"E - 2641.30' (Meas.)

1910 Brass Cap

12

WELL LOCATION:
FEDERAL 9-12-9-17

ELEV. UNGRADED GROUND = 5076.7'

DRILLING WINDOW

200'

663'

1980'

N00°00'34"E - 2637.59' (Meas.)

1910 Brass Cap

N89°51'05"W - 2647.07' (Meas.)

1910 Brass Cap

589°57'34"W - 2640.60' (Meas.)

1910 Brass Cap

N00°01'01"W - 2643.52' (Meas.)

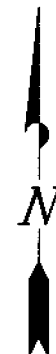
NORTH G.L.O. (Basis of Bearings)
2643.50' (Measured)

NORTH - (G.L.O.)

N89°59'W - 80.04 (G.L.O.)

1910 Brass Cap

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)



THIS IS TO CERTIFY THAT THE MAP THAT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.

STACY W.
STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 089377
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
(435) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: C.D.S./K.G.S.

DATE: 5-20-03

DRAWN BY: J.R.S.

NOTES:

FILE #

INLAND PRODUCTION COMPANY
FEDERAL #9-12-9-17
NE/SE SECTION 12, T9S, R17E
UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

| | |
|-------------|------------|
| Uinta | 0' – 1640' |
| Green River | 1640' |
| Wasatch | 5900' |

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1640' – 6500' - Oil

4. **PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**INLAND PRODUCTION COMPANY
FEDERAL #9-12-9-17
NE/SE SECTION 12, T9S, R17E
UINTAH COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Federal #9-12-9-17 located in the NE 1/4 SE 1/4 Section 12, T9S, R17E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.8 miles \pm to it's junction with an existing road to the southeast; proceed southeasterly - 3.6 miles \pm to it's junction with the beginning of an access road to be upgraded; proceed along the access road to be upgraded - 2700' \pm to it's junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road 275' \pm to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Paleontological Resource Survey and Archaeological Resource Survey for this area are attached. MOAC Report #03-58, 5/19/03. Paleontological Resource Survey prepared by, Wade E. Miller, 5/8/03. See attached report cover pages, Exhibit "D".

Inland Production Company requests a 60' ROW for the Federal #9-12-9-17 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP.

Inland Production Company also requests a 60' ROW be granted for the Federal #9-12-9-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP.

Water Disposal

Please refer to the Monument Butte Field SOP.

Reserve Pit Liner

Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

| | | |
|---------------|-------------------------------|------------|
| Shadscale | <i>Atriplex confertifolia</i> | 6 lbs/acre |
| Galleta grass | <i>Hilaria jamesii</i> | 6 lbs/acre |

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Brad Mecham

Address: Route #3 Box 3630
Myton, UT 84052

Telephone: (435) 646-3721

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #9-12-9-17 NE/SE Section 12, Township 9S, Range 17E: Lease U-39713 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

8/29/03

Date

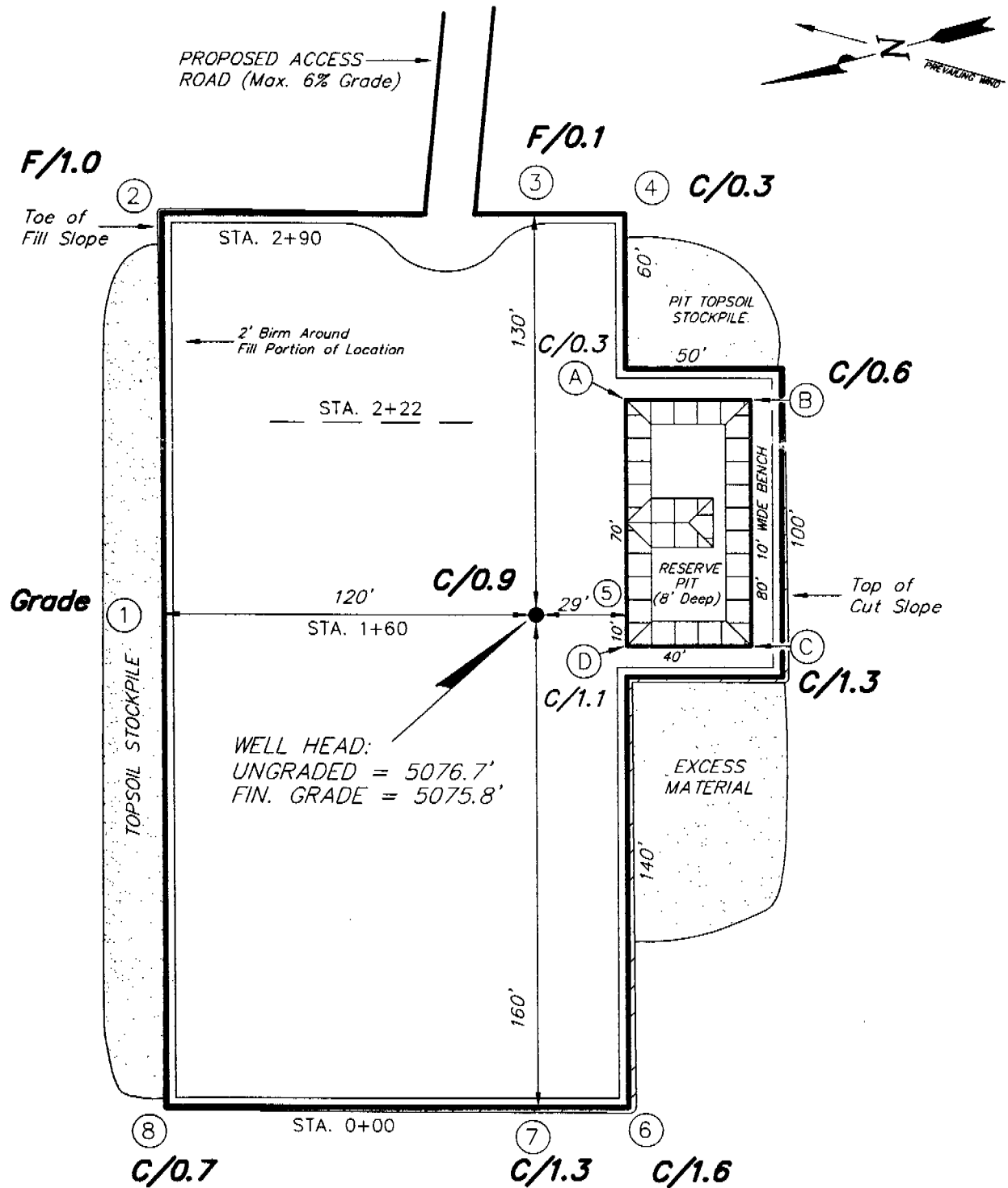
Mandie Crozier

Mandie Crozier
Regulatory Specialist

INLAND PRODUCTION COMPANY

FEDERAL 9-12-9-17

Section 12, T9S, R17E. S.L.B.&M.



REFERENCE POINTS

170' NORTH = 5076.6'
220' NORTH = 5075.4'
210' WEST = 5076.9'
260' WEST = 5077.3'

SURVEYED BY: K.G.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 5-20-03

Tri State
Land Surveying, Inc.

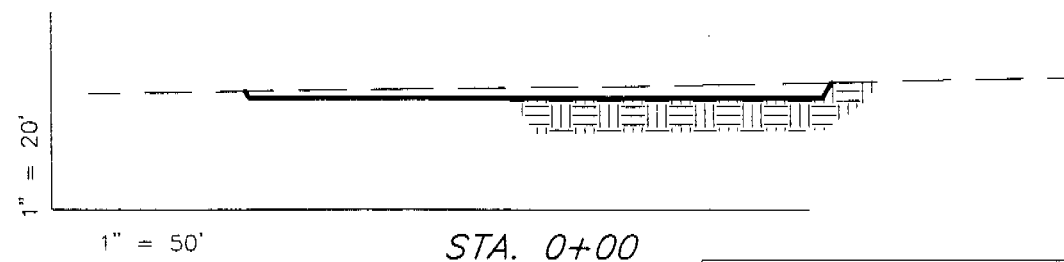
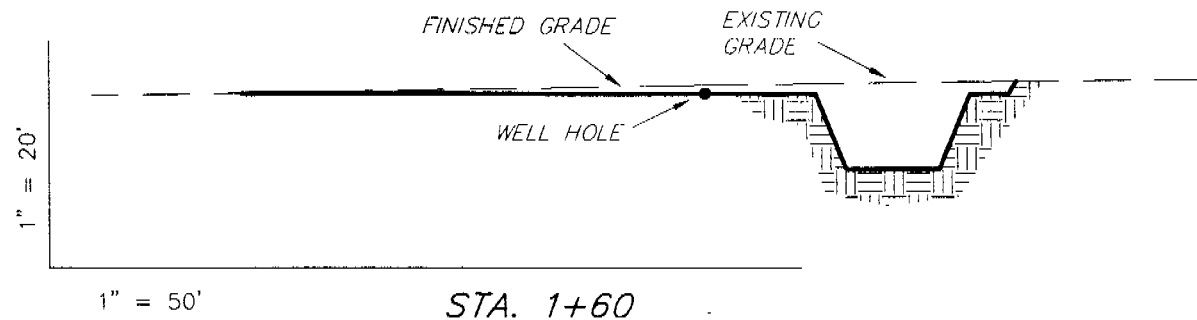
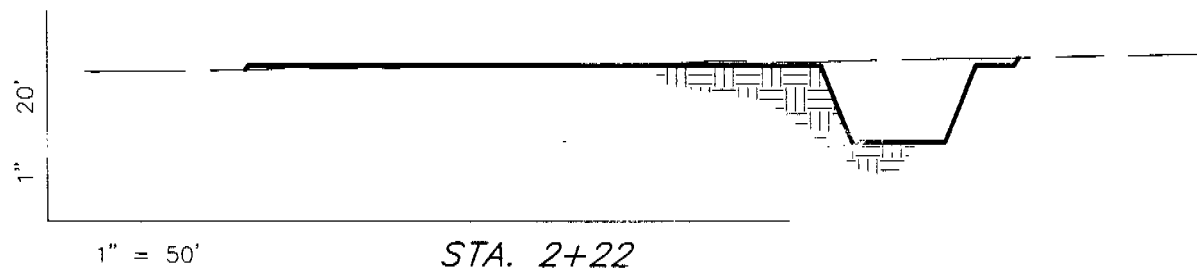
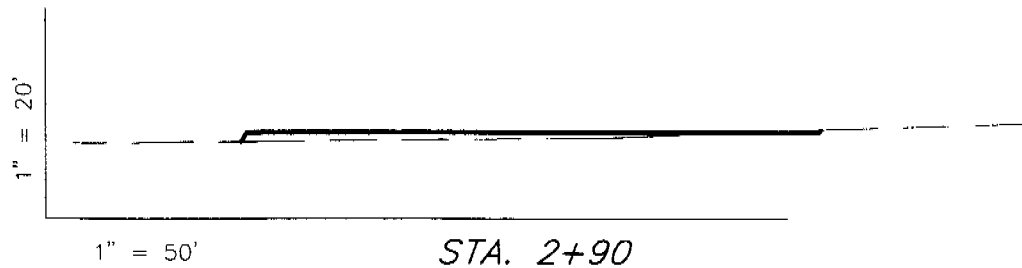
(435) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078

INLAND PRODUCTION COMPANY

CROSS SECTIONS

FEDERAL 9-12-9-17



NOTE:
UNLESS OTHERWISE NOTED
ALL CUT/FILL SLOPES ARE
AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES

(Expressed in Cubic Yards)

| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
|--------|-------|------|--|--------|
| PAD | 420 | 420 | Topsoil is not included in Pad Cut | 0 |
| PIT | 640 | 0 | | 640 |
| TOTALS | 1,060 | 420 | 890 | 640 |

SURVEYED BY: K.G.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: --20-03

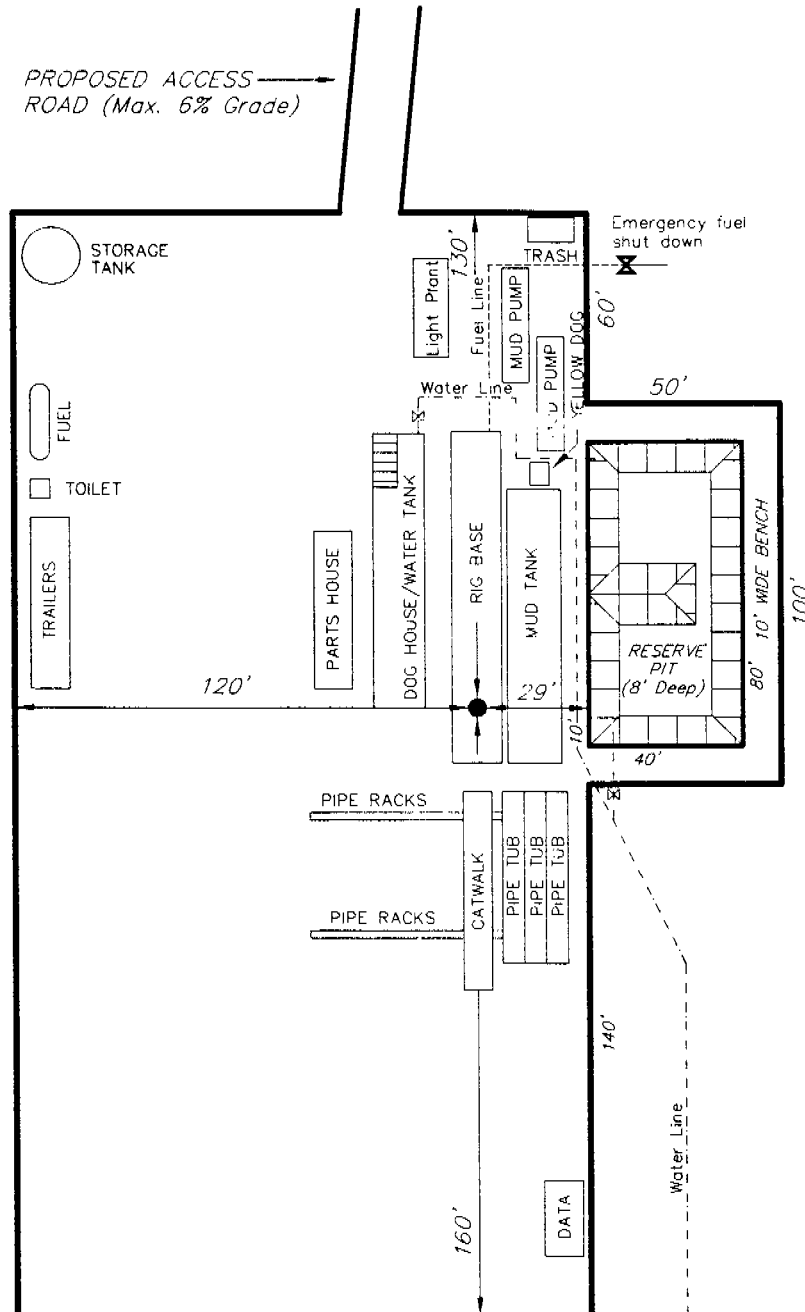
Tri State
Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

(435) 781-2501

INLAND PRODUCTION COMPANY

TYPICAL RIG LAYOUT

FEDERAL 9-12-9-17



SURVEYED BY: K.G.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 7-20-03

Tri State
Land Surveying, Inc.

(435) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078

2-M SYSTEM

Blowout Prevention Equipment Systems

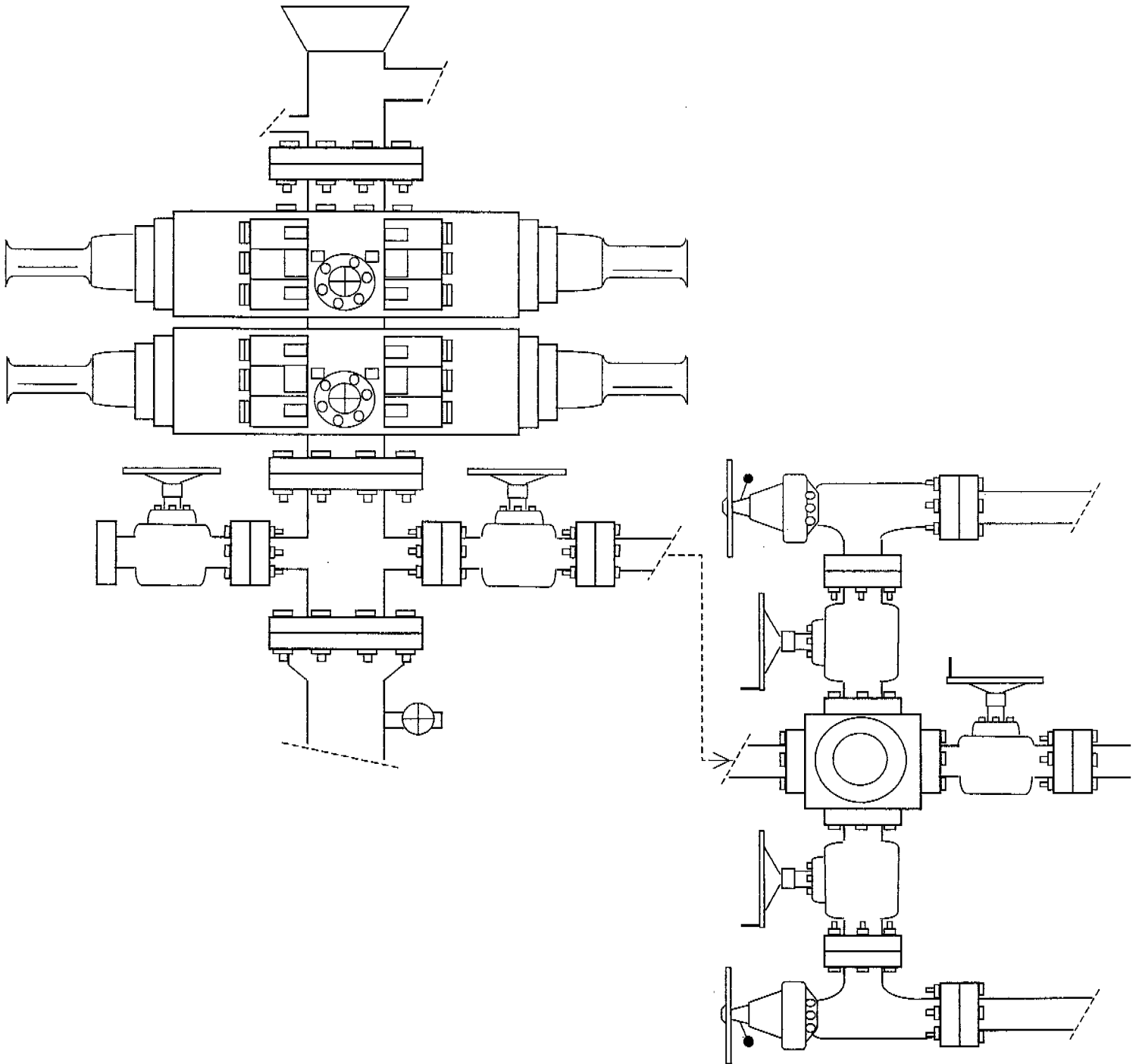


EXHIBIT C

CULTURAL RESOURCE INVENTORY OF
INLAND RESOURCES' BLOCK PARCELS IN
T 9S, R 17E, SECTIONS 1 AND 12
Uintah County, Utah

BY:

Mark C. Bond

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Jon D. Holst & Company
for
Inland Resources
2507 Flintridge Place
Fort Collins, CO 80521

Prepared By:

Montgomery Archaeological Consultants
P.O. Box 147
Moab, Utah 84532

MOAC Report No. 03-58

May 19, 2003

United States Department of Interior (FLPMA)
Permit No. 03-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-03-MQ-0328b

INLAND RESOURCES, INC.

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED
PRODUCTION DEVELOPMENT AREAS,
DUCHESNE AND UTAH COUNTIES, UTAH**

(South $\frac{1}{2}$ Section 6, T 9 S, R 18 E; South $\frac{1}{2}$ Section 1, T 9 S, 17 R E;
all of Sections 11 and 12, the NW, SE & NE quarters of the SW $\frac{1}{4}$ Section 10,
the NE $\frac{1}{4}$ & SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ Section 9, T 9 S, R 17 E and the SE $\frac{1}{4}$, SW $\frac{1}{4}$,
NE $\frac{1}{4}$ and SE $\frac{1}{4}$ of the SE $\frac{1}{4}$, Section 33, T 8 S, R 17 E.)

REPORT OF SURVEY

Prepared for:

Inland Resources, Inc.

Prepared by:

Wade E. Miller
Consulting Paleontologist
May 8, 2003



Federal 9-12-9-17
SEC. 12, T9S, R17E, S.L.B.&M.



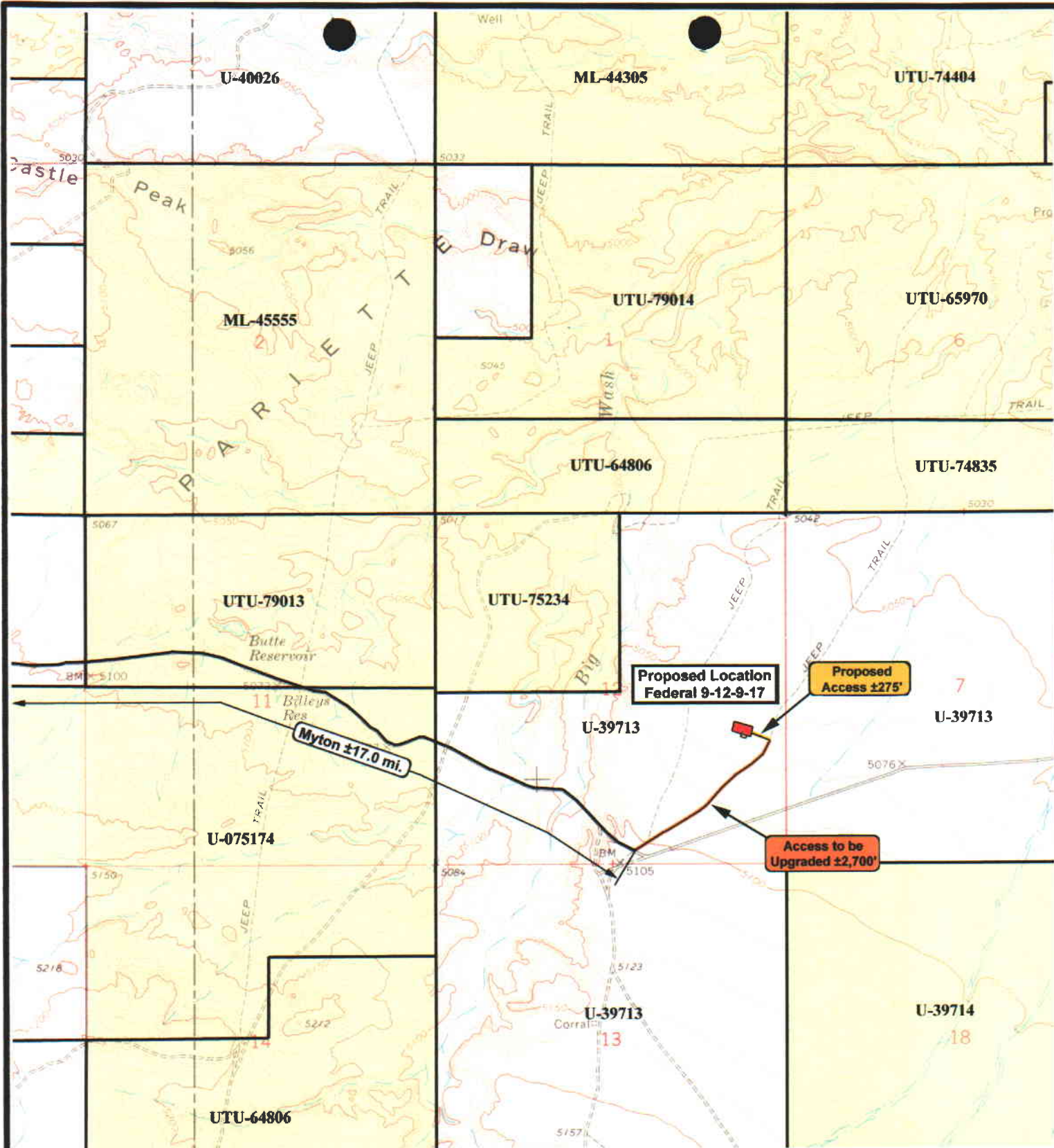
Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
 DRAWN BY: R.A.B.
 DATE: 05-23-2003

Legend
 — Existing Road
 — Proposed Access

TOPOGRAPHIC MAP

"A"



Federal 9-12-9-17
SEC. 12, T9S, R17E, S.L.B.&M.



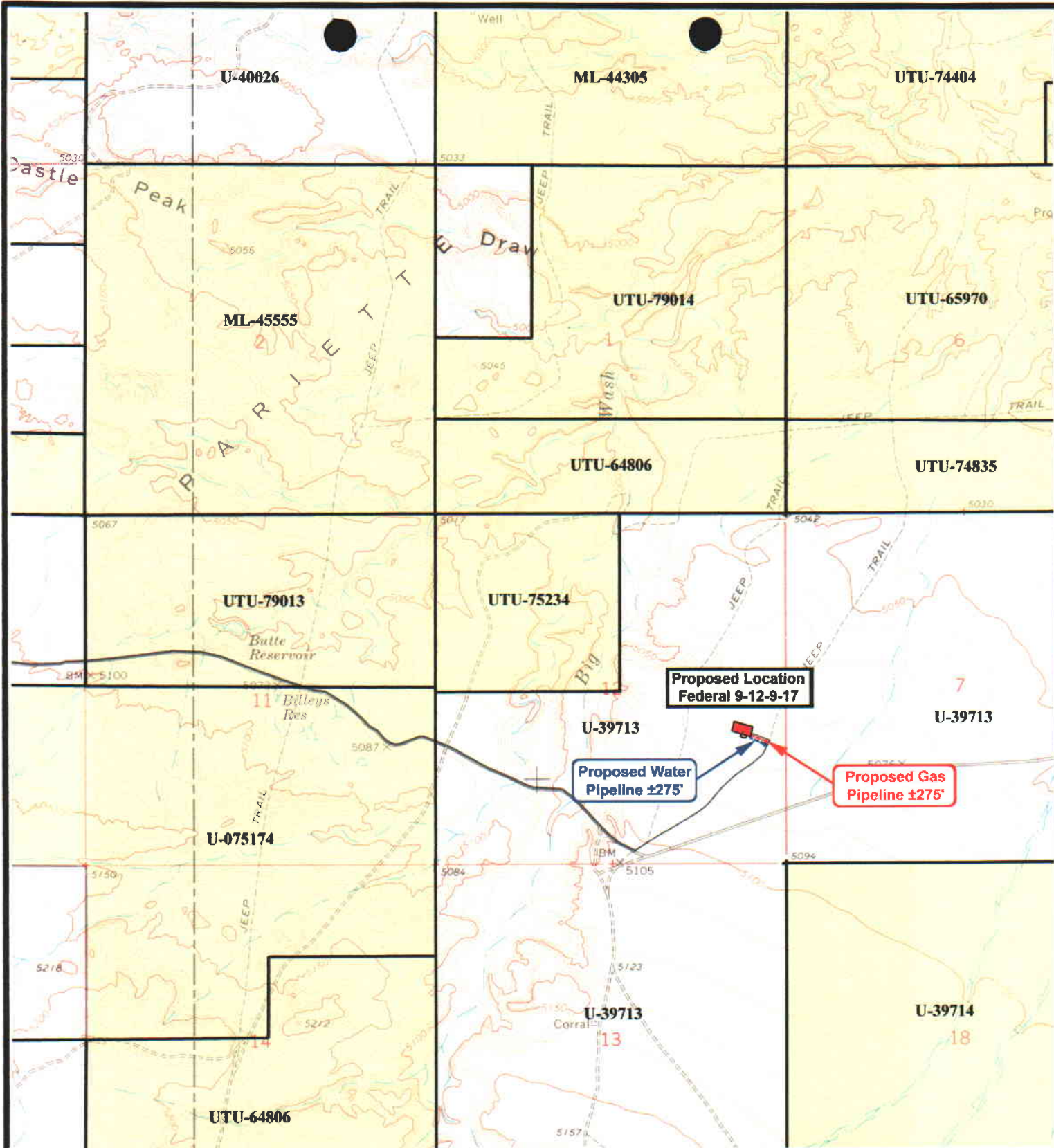
Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: R.A.B.
 DATE: 05-23-2003

- Legend**
- Existing Road
 - Proposed Access
 - Upgraded Access

TOPOGRAPHIC MAP

"B"



**Federal 9-12-9-17
SEC. 12, T9S, R17E, S.L.B.&M.**



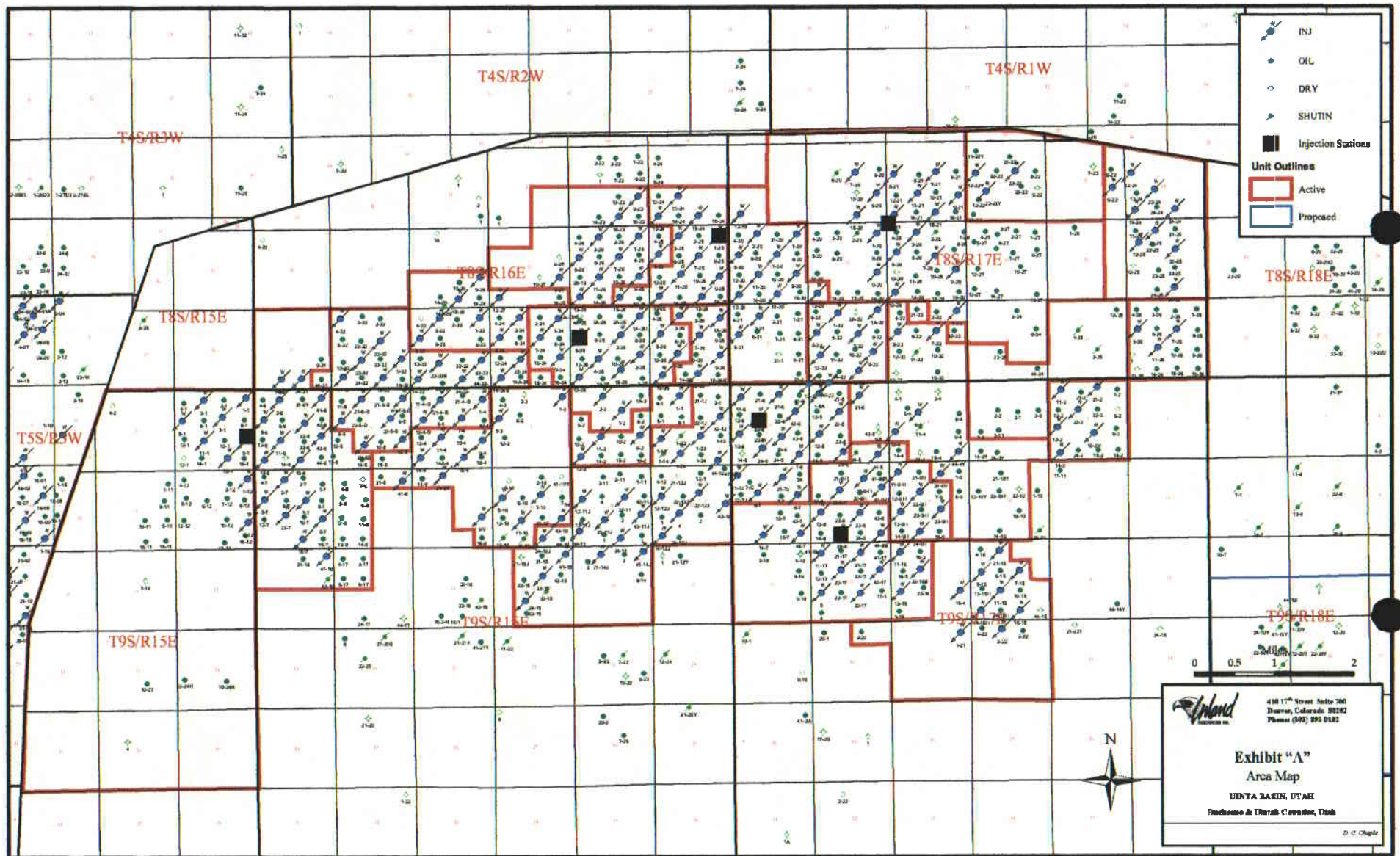
**Tri-State
Land Surveying Inc.**
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: R.A.B.
DATE: 05-23-2003

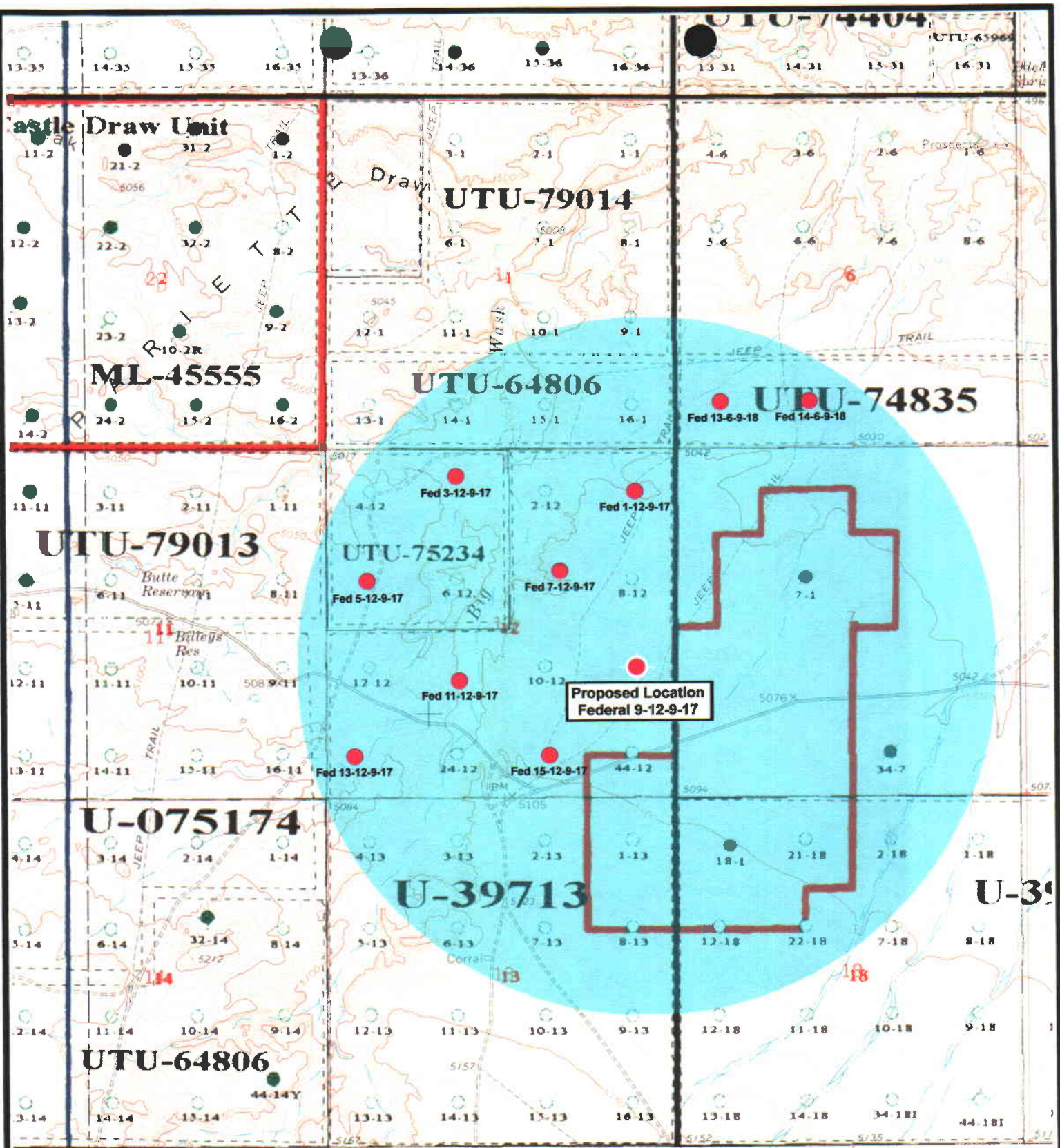
- Legend**
- Roads
 - Proposed Gas Line
 - Proposed Water Line

TOPOGRAPHIC MAP

"C"



January 15, 2003



Federal 9-12-9-17
SEC. 12, T9S, R17E, S.L.B.&M.



Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: R.A.B.
DATE: 05-23-2003

Legend

● Well Locations
○ One-Mile Radius

Exhibit "B"

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

003

APD RECEIVED: 09/02/2003

API NO. ASSIGNED: 43-047-35166

WELL NAME: FEDERAL 9-12-9-17

OPERATOR: INLAND PRODUCTION (N5160)

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NESE 12 090S 170E

SURFACE: 1980 FSL 0663 FEL

BOTTOM: 1980 FSL 0663 FEL

UINTAH

8 MILE FLAT NORTH (590)

LEASE TYPE: 1 - Federal

LEASE NUMBER: U-39713

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering | | |
| Geology | | |
| Surface | | |

LATITUDE: 40.04363

LONGITUDE: 109.94718

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
 (No. 4488944)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
 (No. MUNICIPAL)
☒ RDCC Review (Y/N)
 (Date:)
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

R649-2-3.

Unit

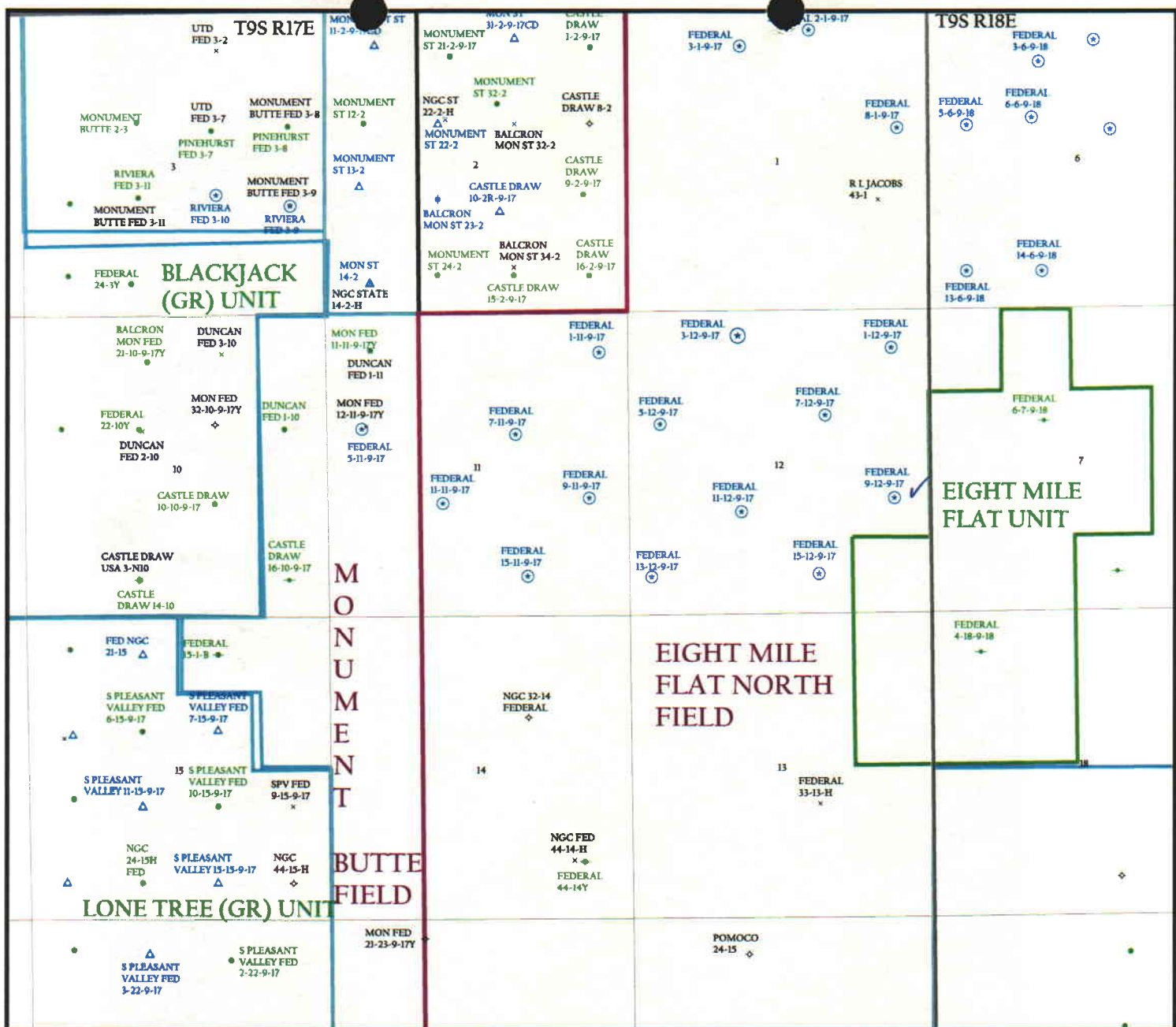
☒ R649-3-2. General
 Siting: 460 From Qtr/Qtr & 920' Between Wells
☐ R649-3-3. Exception
☐ Drilling Unit
 Board Cause No: _____
 Eff Date: _____
 Siting: _____
☐ R649-3-11. Directional Drill

COMMENTS:

SOP, Separative

STIPULATIONS:

1- Federal Approval
2- Spacing Strip



OPERATOR: INLAND PRODUCTION (N5160)

SEC. 12 T.9S, R.17E

FIELD: EIGHT MILE FLAT NORTH (590)

COUNTY: UTAH

SPACING: R649-3-2 / GENERAL SITING

Wells

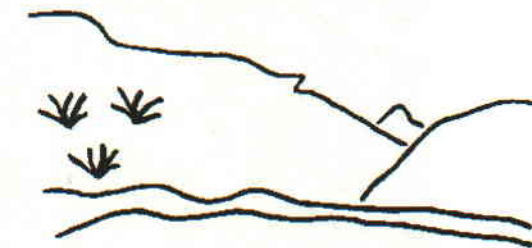
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON
DATE: 03-SEPTEMBER-2003



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

September 4, 2003

Inland Production Company
Route #3, Box 3630
Myton, UT 84052

Re: Federal 9-12-9-17 Well, 1980' FSL, 663' FEL, NE SE, Sec. 12, T. 9 South, R. 17 East,
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35166.

Sincerely,

A handwritten signature in black ink, appearing to read 'John R. Baza'.

John R. Baza
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: Inland Production Company
Well Name & Number Federal 9-12-9-17
API Number: 43-047-35166
Lease: U-39713

Location: NE SE **Sec.** 12 **T.** 9 South **R.** 17 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

005

Form 3160-3
(September 2001)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

| | | |
|--|---|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. U-39713 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name N/A |
| 2. Name of Operator Inland Production Company | | 7. If Unit or CA Agreement, Name and No. N/A |
| 3a. Address Route #3 Box 3630, Myton UT 84052 | 3b. Phone No. (include area code) (435) 646-3721 | 8. Lease Name and Well No. Federal 9-12-9-17 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NE/SE 1980' FSL 663' FEL At proposed prod. zone | | 9. API Well No. 43-047-35166 |
| 14. Distance in miles and direction from nearest town or post office* Approximately 17.5 miles southeast of Myton, Utah | | 10. Field and Pool, or Exploratory Monument Butte |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 663' f/lse, NA f/unit | | 11. Sec., T., R., M., or Blk. and Survey or Area NE/SE Sec. 12, T9S R17E |
| 16. No. of Acres in lease 1,120.00 | | 12. County or Parish Uintah |
| 17. Spacing Unit dedicated to this well 40 Acres | | 13. State UT |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2596' | | 20. BLM/BIA Bond No. on file #4488944 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5077' GR | 22. Approximate date work will start* 4th Quarter 2003 | 23. Estimated duration Approximately seven (7) days from spud to rig release. |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

| | | |
|--|--|-----------------|
| 25. Signature <i>Mandie Crozier</i> | Name (Printed/Typed) Mandie Crozier | Date 8/29/03 |
|--|--|-----------------|

| | | |
|---|---|--------------------|
| Title Regulatory Specialist | | |
| Approved by (Signature) <i>Thomas D. Bourgeois</i> | Name (Printed/Typed) Thomas D. Bourgeois | Date 07/12/2004 |
| Title Assistant Field Manager Mineral Resources | Office | |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

NOTICE OF APPROVAL

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

RECEIVED

JUL 19 2004

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company.
Well Name & Number: Federal 9-12-9-17
API Number 43-047-35166
Lease Number: U-39713
Location: NESE Sec. 12 T.9S R. 17E
Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**Please submit to this office, in LAS format, an electronic copy of all logs run on this well
This submission will replace the requirement for submittal of paper logs to the BLM.**

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 828-7874
Petroleum Engineer

Kirk Fleetwood (435) 828-7875
Petroleum Engineer

BLM FAX Machine (435) 781-4410

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

-No construction or drilling shall be allowed during the burrowing owl nesting season (April 1 to Aug. 15), without first consulting the BLM biologist. If no nesting owls are found, drilling will be allowed.

-Mountain Plover surveys would have to be conducted in accordance with the U.S. Fish and Wildlife Service Mountain Plover Survey Guidelines.

-To reduce noise levels in the area, a hospital muffler or multi-cylinder engine shall be installed on the pumping unit.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

006

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

1980 FSL 663 FEL NE/SE Section 12, T9S R17E

5. Lease Designation and Serial No.

U-39713

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

FEDERAL 9-12-9-17

9. API Well No.

43-047-35166

10. Field and Pool, or Exploratory Area

EIGHT MILE FLAT

11. County or Parish, State

UINTAH COUNTY, UT.

12. **CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Permit Extension**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Inland Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 9/4/03 (expiration 9/4/04).

Approved by the
Utah Division of
Oil, Gas and Mining

Date:

By:

COPIES TO OPERATOR
8-31-04
LHD

RECEIVED

AUG 24 2004

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Mandie Crozier
Mandie Crozier

Title

Regulatory Specialist

Date

8/27/04

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-35166
Well Name: Federal 9-12-9-17
Location: NE/SE Section 12, T9S R17E
Company Permit Issued to: Inland Production Company
Date Original Permit Issued: 9/4/2003

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒ NA

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

8/27/2004

Date

Title: Regulatory Specialist

Representing: Inland Production Company



Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov>



IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

| | | | | | |
|---------|--------|--------|--------|-------|--------|
| UTSL- | 15855 | 61052 | 73088 | 76561 | |
| 071572A | 16535 | 62848 | 73089 | 76787 | |
| 065914 | 16539 | 63073B | 73520A | 76808 | |
| | 16544 | 63073D | 74108 | 76813 | |
| | 17036 | 63073E | 74805 | 76954 | 63073X |
| | 17424 | 63073O | 74806 | 76956 | 63098A |
| | 18048 | 64917 | 74807 | 77233 | 68528A |
| UTU- | 18399 | 64379 | 74808 | 77234 | 72086A |
| | 19267 | 64380 | 74389 | 77235 | 72613A |
| 02458 | 26026A | 64381 | 74390 | 77337 | 73520X |
| 03563 | 30096 | 64805 | 74391 | 77338 | 74477X |
| 03563A | 30103 | 64806 | 74392 | 77339 | 75023X |
| 04493 | 31260 | 64917 | 74393 | 77357 | 76189X |
| 05843 | 33992 | 65207 | 74398 | 77359 | 76331X |
| 07978 | 34173 | 65210 | 74399 | 77365 | 76788X |
| 09803 | 34346 | 65635 | 74400 | 77369 | 77098X |
| 017439B | 36442 | 65967 | 74404 | 77370 | 77107X |
| 017985 | 36846 | 65969 | 74405 | 77546 | 77236X |
| 017991 | 38411 | 65970 | 74406 | 77553 | 77376X |
| 017992 | 38428 | 66184 | 74411 | 77554 | 78560X |
| 018073 | 38429 | 66185 | 74805 | 78022 | 79485X |
| 019222 | 38431 | 66191 | 74806 | 79013 | 79641X |
| 020252 | 39713 | 67168 | 74826 | 79014 | 80207X |
| 020252A | 39714 | 67170 | 74827 | 79015 | 81307X |
| 020254 | 40026 | 67208 | 74835 | 79016 | |
| 020255 | 40652 | 67549 | 74868 | 79017 | |
| 020309D | 40894 | 67586 | 74869 | 79831 | |
| 022684A | 41377 | 67845 | 74870 | 79832 | |
| 027345 | 44210 | 68105 | 74872 | 79833 | |
| 034217A | 44426 | 68548 | 74970 | 79831 | |
| 035521 | 44430 | 68618 | 75036 | 79834 | |
| 035521A | 45431 | 69060 | 75037 | 80450 | |
| 038797 | 47171 | 69061 | 75038 | 80915 | |
| 058149 | 49092 | 69744 | 75039 | 81000 | |
| 063597A | 49430 | 70821 | 75075 | | |
| 075174 | 49950 | 72103 | 75078 | | |
| 096547 | 50376 | 72104 | 75089 | | |
| 096550 | 50385 | 72105 | 75090 | | |
| | 50376 | 72106 | 75234 | | |
| | 50750 | 72107 | 75238 | | |
| 10760 | 51081 | 72108 | 76239 | | |
| 11385 | 52013 | 73086 | 76240 | | |
| 13905 | 52018 | 73087 | 76241 | | |
| 15392 | 58546 | 73807 | 76560 | | |

DIVISION OF OIL, GAS AND MINING**SPUDDING INFORMATION**Name of Company: INLAND PRODUCTION COMPANYWell Name: FEDERAL 9-12-9-17Api No: 43-047-35166 Lease Type: FEDERALSection 12 Township 09S Range 17E County UINTAHDrilling Contractor NDSI RIG # NS#1**SPUDDED:**Date 11/11/2004Time 1:00 PMHow DRY**Drilling will commence:** _____Reported by FLOYD MITCHELLTelephone # 1-435-823-3610Date 11/12/2004 Signed CHD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY
FORM 3160-5
OMB No. 1004-0135
Expires January 31, 2004

008

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPPLICATE - Other Instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address

Route 3 Box 3630
Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980 FSL 663 FEL

NE/SE Section 12 T9S R17E

5. Lease Serial No.

UTU39713

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

FEDERAL 9-12-9-17

9. API Well No.

4304735166

10. Field and Pool, or Exploratory Area
Monument Butte

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Spud Notice _____ |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | _____ |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 11-11-04 MIRU NDSI NS # 1. Spud well @ 1:00 pM. Drill 335' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 334.63' KB On 11-18-04 cement with 150 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 1 bbl cement to pit. WOC.

RECEIVED

NOV 23 2004

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)
Floyd Mitchell

Title

Drilling Supervisor

Signature

Floyd Mitchell

Date

11/18/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 334.63

LAST CASING 8 5/8" SET / 334'
 DATUM 12' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 335' LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company
 WELL Federal 9-12-9-17
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # NDSI NS#1

LOG OF CASING STRING:

| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH |
|-------------------------|--------|---------------------------|---------|-----------------------------|--------|-------|---------------|
| | | | | | | | |
| | | | | | | | |
| | | 40.35 shoe jt | | | | | |
| | | WHI - 92 csg head | | | 8rd | A | 0.95 |
| 8 | 8 5/8" | Maverick ST&C csg | 24# | J-55 | 8rd | A | 322.78 |
| | | GUIDE shoe | | | 8rd | A | 0.9 |
| CASING INVENTORY BAL. | | FEET | JTS | TOTAL LENGTH OF STRING | | | 324.63 |
| TOTAL LENGTH OF STRING | | 324.63 | 8 | LESS CUT OFF PIECE | | | 2 |
| LESS NON CSG. ITEMS | | 1.85 | | PLUS DATUM TO T/CUT OFF CSG | | | 12 |
| PLUS FULL JTS. LEFT OUT | | 0 | | CASING SET DEPTH | | | 334.63 |

| | | | | | | | |
|-----------------------------|------------|----------|-----------|--|--|--|--|
| TOTAL | 322.78 | 8 | } COMPARE | GOOD CIRC THRU JOB <u>Yes</u> | | | |
| TOTAL CSG. DEL. (W/O THRDS) | 322.78 | 8 | | Bbls CMT CIRC TO SURFACE <u>1</u> | | | |
| TIMING | 1ST STAGE | | | RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE | | | |
| BEGIN RUN CSG. SPUD | 11/11/2004 | 1:00 PM | | DID BACK PRES. VALVE HOLD ? <u>N/A</u> | | | |
| CSG. IN HOLE | 11/12/2004 | 9:00 AM | | BUMPED PLUG TO <u>657</u> PSI | | | |
| BEGIN CIRC | 11/18/2004 | 11:48 AM | | | | | |
| BEGIN PUMP CMT | 11/18/2004 | 11:55 AM | | | | | |
| BEGIN DSPL. CMT | 11/18/2004 | 12:05 PM | | | | | |
| PLUG DOWN | 11/18/2004 | 12:15 PM | | | | | |

| | | | |
|---|------|---|--|
| CEMENT USED | | CEMENT COMPANY- BJ | |
| STAGE | # SX | CEMENT TYPE & ADDITIVES | |
| 1 | 150 | Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield | |
| | | | |
| | | | |
| CENTRALIZER & SCRATCHER PLACEMENT | | SHOW MAKE & SPACING | |
| Centralizers - Middle first, top second & third for 3 | | | |
| | | | |
| | | | |

COMPANY REPRESENTATIVE Floyd Mitchell DATE 11/18/2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 04-0135
Expires January 31, 2002

COPY

RECEIVED
DEC 21 2004

010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

| | | |
|--|---|---|
| SUBMIT IN TRIPLICATE - Other instructions on reverse side | | 5. Lease Serial No. UTU39713 |
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 6. If Indian, Allottee or Tribe Name. |
| 2. Name of Operator Newfield Production Company | | 7. If Unit or CA/Agreement, Name and/or No. |
| 3a. Address Route 3 Box 3630 Myton, UT 84052 | 3b. Phone No. (include area code) 435.646.3721 | 8. Well Name and No. FEDERAL 9-12-9-17 |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980 FSL 663 FEL NE/SE Section 12 T9S R17E | | 9. API Well No. 4304735166 |
| | | 10. Field and Pool, or Exploratory Area Monument Butte |
| | | 11. County or Parish, State Utah, UT |

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Weekly Status Report |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 12-10-04 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 289'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5840'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 130 jt's of 5.5 J-55, 15.5# csgn. Set @ 5827' / KB. Cement with 285 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. With 19 bbls cement returned to pit. Nipple down Bop's. Drop slips @ 80,000 #s tension. Release rig 6:00 pm on 9-16-04.

| | |
|---|---------------------------|
| I hereby certify that the foregoing is true and correct Name (Printed/ Typed) Ray Herrera | Title Drilling Foreman |
| Signature <i>Ray Herrera</i> | Date 12/19/2004 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|--------------|------------|
| Approved by _____ | Title _____ | Date _____ |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office _____ | |

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5827.18

Flt cllr @ 5784'

LAST CASING 8 5/8" SET AT 334.63

OPERATOR Newfield Production Company

DATUM 12' KB

WELL Federal 9-12-9-17

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE _____

CONTRACTOR & RIG # NDSI rig #2

TD DRILLER 5840' LOGGER _____

HOLE SIZE 7 7/8"

| LOG OF CASING STRING: | | | | | | | |
|---|--------|--|---------------------|---|--------|-------|----------------|
| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH |
| | | Landing Jt | | | | | 14 |
| | | 6' SHJT @ 3982' | | | | | |
| 130 | 5 1/2" | ETC LT & C casing | 15.5# | J-55 | 8rd | A | 5770.83 |
| | | Float collar | | | | | 0.6 |
| 1 | 5 1/2" | ETC LT&C csg | 15.5# | J-55 | 8rd | A | 43.1 |
| | | GUIDE shoe | | | 8rd | A | 0.65 |
| CASING INVENTORY BAL. | | FEET | JTS | TOTAL LENGTH OF STRING | | | 5829.18 |
| TOTAL LENGTH OF STRING | | 5829.18 | 131 | LESS CUT OFF PIECE | | | 14 |
| LESS NON CSG. ITEMS | | 15.25 | | PLUS DATUM TO T/CUT OFF CSG | | | 12 |
| PLUS FULL JTS. LEFT OUT | | 126.53 | 3 | CASING SET DEPTH | | | 5827.18 |
| TOTAL | | 5940.46 | 134 | } COMPARE | | | |
| TOTAL CSG. DEL. (W/O THRDS) | | 5940.46 | 134 | | | | |
| TIMING | | 1ST STAGE | 2nd STAGE | | | | |
| BEGIN RUN CSG. | | 7:00 AM | 12/16/2004 | GOOD CIRC THRU JOB <u>yes</u> | | | |
| CSG. IN HOLE | | 10:30 AM | 12/16/2004 | Bbls CMT CIRC TO SURFACE <u>19 bbls</u> | | | |
| BEGIN CIRC | | 10:35 AM | 12/16/2004 | RECIPROCATED PIPE FOR <u>THRUSTROKE</u> | | | |
| BEGIN PUMP CMT | | 11:45 AM | 12/16/2004 | DID BACK PRES. VALVE HOLD ? <u>yes</u> | | | |
| BEGIN DSPL. CMT | | 12:32 PM | 12/16/2004 | BUMPED PLUG TO <u>2120</u> PSI | | | |
| PLUG DOWN | | 12:55PM | 12/16/2004 | | | | |
| CEMENT USED | | CEMENT COMPANY- B. J. | | | | | |
| STAGE | # SX | CEMENT TYPE & ADDITIVES | | | | | |
| 1 | 285 | Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake | | | | | |
| | | mixed @ 11.0 ppg W / 3.43 cf/sk yield | | | | | |
| 2 | 400 | 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1,1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD | | | | | |
| CENTRALIZER & SCRATCHER PLACEMENT | | | SHOW MAKE & SPACING | | | | |
| Centralizers - Middle first, top second & third. Then every third collar for a total of 20. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

COMPANY REPRESENTATIVE Ray Herrera

DATE 12/16/2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

011

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address

Route 3 Box 3630
Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980 FSL 663 FEL
NE/SE Section 12 T9S R17E

5. Lease Serial No.

UTU39713

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

FEDERAL 9-12-9-17

9. API Well No.

4304735166

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Weekly Status Report |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 1/4/05 - 1/14/05

Subject well had completion procedures initiated in the Green River formation on 1/4/05 without the use of a service rig over the well. A cement bond log was run and a total of three Green River intervals were perforated and hydraulically fracture treated w/ 20/40 mesh sand. Perf intervals were #1 (5683-5689'), (5658-5665') (All 4 JSPF); #2 (5536-5540'), (5487-5491'), (5447-5459') (All 4 JSPF); #3 (4968-4992') (4 JSPF). Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved on well on 1/12/05. Bridge plugs were drilled out. Well was cleaned out to PBTD @ 5782'. Zones were swab tested for sand cleanup. A BHA & production tbg string were run in and anchored in well. End of tubing string @ 5701'. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 1/14/05.

RECEIVED

JAN 21 2005

OIL, GAS & MINING

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)
Martha Warr

Title

Office Manager

Signature

Date
1/20/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

OPERATOR CHANGE WORKSHEET

012

Change of Operator (Well Sold)

Designation of Agent/Operator

ROUTING

1. GLH

2. CDW

3. FILE

X Operator Name Change**Merger**

The operator of the well(s) listed below has changed, effective:

9/1/2004

FROM: (Old Operator):

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

TO: (New Operator):

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

CA No.

Unit:

WELL(S)

| NAME | SEC TWN RNG | | | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS | |
|--------------------|-------------|------|------|------------|-----------|------------|-----------|-------------|---|
| FEDERAL 10-1-9-17 | 01 | 090S | 170E | 4304735090 | 14421 | Federal | OW | DRL | K |
| FEDERAL 9-1-9-17 | 01 | 090S | 170E | 4304735179 | 14075 | Federal | OW | P | K |
| FEDERAL 11-1-9-17 | 01 | 090S | 170E | 4304735180 | 14105 | Federal | OW | P | K |
| FEDERAL 1-11-9-17 | 11 | 090S | 170E | 4304735156 | 14321 | Federal | OW | P | K |
| FEDERAL 7-11-9-17 | 11 | 090S | 170E | 4304735157 | 14249 | Federal | OW | P | K |
| FEDERAL 9-11-9-17 | 11 | 090S | 170E | 4304735158 | 14250 | Federal | OW | P | K |
| FEDERAL 11-11-9-17 | 11 | 090S | 170E | 4304735159 | 14287 | Federal | OW | P | K |
| FEDERAL 15-11-9-17 | 11 | 090S | 170E | 4304735160 | 14302 | Federal | OW | P | K |
| FEDERAL 3-12-9-17 | 12 | 090S | 170E | 4304735162 | 14343 | Federal | OW | P | K |
| FEDERAL 1-12-9-17 | 12 | 090S | 170E | 4304735163 | 14361 | Federal | OW | DRL | K |
| FEDERAL 5-12-9-17 | 12 | 090S | 170E | 4304735164 | 14344 | Federal | OW | P | K |
| FEDERAL 7-12-9-17 | 12 | 090S | 170E | 4304735165 | 14347 | Federal | OW | P | K |
| FEDERAL 9-12-9-17 | 12 | 090S | 170E | 4304735166 | 14391 | Federal | OW | DRL | K |
| FEDERAL 11-12-9-17 | 12 | 090S | 170E | 4304735167 | 14345 | Federal | OW | P | K |
| FEDERAL 13-12-9-17 | 12 | 090S | 170E | 4304735168 | 14305 | Federal | OW | P | K |
| FEDERAL 15-12-9-17 | 12 | 090S | 170E | 4304735169 | 14346 | Federal | OW | P | K |
| FEDERAL 2-25-9-17 | 25 | 090S | 170E | 4304734951 | | Federal | OW | APD | K |
| FEDERAL 3-14-9-18 | 14 | 090S | 180E | 4304734943 | | Federal | OW | APD | K |
| FEDERAL 4-14-9-18 | 14 | 090S | 180E | 4304734944 | | Federal | OW | APD | K |
| FEDERAL 2-23-9-18 | 23 | 090S | 180E | 4304734950 | | Federal | OW | APD | K |
| | | | | | | | | | |
| | | | | | | | | | |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 2/28/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The FORMER operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

013

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other _____

2. NAME OF OPERATOR

Newfield Production Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At Surface 1980' FSL & 663' FEL (NE SE) Sec. 12, Twp 9S, Rng 17E
At top prod. Interval reported below

At total depth

14. API NO. 43-047-35166 DATE ISSUED 9/4/2003

12. COUNTY OR PARISH Uintah

13. STATE UT

15. DATE SPUDDED 11/11/2004

16. DATE T.D. REACHED 12/16/2004

17. DATE COMPL. (Ready to prod.) 1/14/2005

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5077' GL

5089' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5840'

21. PLUG BACK T.D., MD & TVD

5782'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY ----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

Green River 4968'-5689'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|--|---------------|
| 8-5/8" - J-55 | 24# | 335' | 12-1/4" | To surface with 150 sx Class "G" cmt | |
| 5-1/2" - J-55 | 15.5# | 5827' | 7-7/8" | 285 sx Premite II and 400 sx 50/50 Poz | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
| | | | | | 2-7/8" | EOT @ 5700' | TA @ 5595' |

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

| INTERVAL | SIZE | SPF/NUMBER | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|------|------------|---------------------|--|
| (CP5) 5658-65', 5683-89' | .41" | 4/52 | 5658'-5689' | Frac w/ 35,666# 20/40 sand in 345 bbls fluid. |
| (CP2,3,4) 5447-59', 54887-91', 5536-40' | .41" | 4/80 | 5447'-5540' | Frac w/ 63,580# 20/40 sand in 520 bbls fluid. |
| (A1) 4968'-4992' | .41" | 4/96 | 4968'-4992' | Frac w/ 105,209# 20/40 sand in 220 bbls fluid. |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.* PRODUCTION

| | | | | | | | | |
|-----------------------|-----------------|--|-------------------------|----------|------------|-------------------------|------------------------------------|--|
| DATE FIRST PRODUCTION | | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | | | | | WELL STATUS (Producing or shut-in) | |
| 1/14/2005 | | 2-1/2" x 1-1/2" x 15.5' RHAC Pump | | | | | PRODUCING | |
| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO | |
| 10 day ave | | | → | 32 | 66 | 2 | 2063 | |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) | | |
| | | → | | | | RECEIVED | | |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

TEST WITNESSED BY

MAR 30 2005

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Krishna Russell
Krishna Russell

TITLE Production Clerk

DATE _____

DIV. OF OIL, GAS & MINING

KR

| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries); | | | | 38. GEOLOGIC MARKERS | | |
|---|-----|--------|--------------------------------|-----------------------|-------------|------------------|
| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |
| | | | Well Name Federal 9-12-9-17 | Garden Gulch Mkr | 3578' | |
| | | | | Garden Gulch 1 | 3750' | |
| | | | | Garden Gulch 2 | 3865' | |
| | | | | Point 3 Mkr | 4112' | |
| | | | | X Mkr | 4351' | |
| | | | | Y-Mkr | 4389' | |
| | | | | Douglas Creek Mkr | 4516' | |
| | | | | BiCarbonate Mkr | 4753' | |
| | | | | B Limestone Mkr | 4877' | |
| | | | | Castle Peak | 5337' | |
| | | | | Basal Carbonate | 5747' | |
| | | | | Total Depth (LOGGERS) | 5840' | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980 FSL 663 FEL

NE/SE Section 12 T9S R17E

5. Lease Serial No.

UTU39713

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

FEDERAL 9-12-9-17

9. API Well No.

4304735166

10. Field and Pool, or Exploratory Area
Monument Butte

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|--|---|---|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Variance _____ |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | _____ |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Inland operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions.

SENT TO OPERATOR

4-5-05
EHD

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)
Mandie Crozier

Title

Regulatory Specialist

Signature

Date

3/31/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: Federal Approval Of This
Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Date:

By:

RECEIVED

APR 04 2005

UTAH DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

June 30, 2005

Newfield Production Company
Attn: Kelly L. Donohoue
1401 Seventeenth Street, Suite 1000
Denver, Colorado 80202

Gentlemen:

The Sundance (Green River) Unit Agreement, Uintah County, Utah, was approved June 30, 2005. This agreement has been designated No. UTU82472X, and is effective July 1, 2005. The unit area embraces 11,143.86 acres, more or less.

Pursuant to regulations issued and effective June 17, 1988, all operations within the Sundance (Green River) Unit will be covered by your nationwide (Utah) oil and gas bond No. 0056.

The following leases embrace lands included within the unit area:

| | | | |
|------------|-----------|-----------|-----------|
| UTU0075174 | UTU39713 | UTU65970* | UTU79013* |
| UTU16539* | UTU39714 | UTU74404 | UTU79014* |
| UTU16540 | UTU44429 | UTU74835 | UTU80915 |
| UTU17424* | UTU64806* | UTU74872* | UTU82205 |
| UTU18043 | UTU65969 | UTU75234 | |

* Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705.

All lands and interests by State of Utah, Cause No. 228-08 are fully committed.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

RECEIVED

JUL 0 / 2005

DIV. OF OIL, GAS & MINING

*Docket No
2005-009*

We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources. Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement. We request that you furnish the State of Utah and all other interested principals with appropriate evidence of this approval.

Sincerely,

/s/ Terry Catlin

Terry Catlin
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Mary Higgins w/enclosure
MMS - Data Management Division (Attn: James Sykes)
Trust Lands Administration
Division of Oil, Gas and Mining
Field Manager - Vernal w/enclosure
File - Sundance (Green River) Unit w/enclosure
Agr. Sec. Chron
Fluid Chron
Central Files

UT922:TAThompson:tt:06/30/2005

Entity Form 6
"C" Change from one existing entity to another existing entity

| API | Well | Sec | Twsp | Rng | Entity | Entity Eff Date |
|------------|---------------------|-----|------|------|----------------|-----------------|
| 4304734465 | SUNDANCE 15-32-8-18 | 32 | 080S | 180E | 13978 to 14844 | 9/20/2005 |
| 4304734466 | SUNDANCE 16-32-8-18 | 32 | 080S | 180E | 14028 to 14844 | 9/20/2005 |
| 4304735090 | FEDERAL 10-1-9-17 | 01 | 090S | 170E | 14421 to 14844 | 9/20/2005 |
| 4304735179 | FEDERAL 9-1-9-17 | 01 | 090S | 170E | 14075 to 14844 | 9/20/2005 |
| 4304735180 | FEDERAL 11-1-9-17 | 01 | 090S | 170E | 14105 to 14844 | 9/20/2005 |
| 4304735181 | FEDERAL 13-1-9-17 | 01 | 090S | 170E | 14101 to 14844 | 9/20/2005 |
| 4304735182 | FEDERAL 15-1-9-17 | 01 | 090S | 170E | 14094 to 14844 | 9/20/2005 |
| 4304735496 | FEDERAL 16-1-9-17 | 01 | 090S | 170E | 14481 to 14844 | 9/20/2005 |
| 4304735156 | FEDERAL 1-11-9-17 | 11 | 090S | 170E | 14321 to 14844 | 9/20/2005 |
| 4304735157 | FEDERAL 7-11-9-17 | 11 | 090S | 170E | 14249 to 14844 | 9/20/2005 |
| 4304735158 | FEDERAL 9-11-9-17 | 11 | 090S | 170E | 14250 to 14844 | 9/20/2005 |
| 4304735159 | FEDERAL 11-11-9-17 | 11 | 090S | 170E | 14287 to 14844 | 9/20/2005 |
| 4304735160 | FEDERAL 15-11-9-17 | 11 | 090S | 170E | 14302 to 14844 | 9/20/2005 |
| 4304735295 | FEDERAL 3-11-9-17 | 11 | 090S | 170E | 14258 to 14844 | 9/20/2005 |
| 4304735497 | FEDERAL 16-11-9-17 | 11 | 090S | 170E | 14568 to 14844 | 9/20/2005 |
| 4304735498 | FEDERAL 14-11-9-17 | 11 | 090S | 170E | 14621 to 14844 | 9/20/2005 |
| 4304735500 | FEDERAL 10-11-9-17 | 11 | 090S | 170E | 14587 to 14844 | 9/20/2005 |
| 4304735501 | FEDERAL 8-11-9-17 | 11 | 090S | 170E | 14578 to 14844 | 9/20/2005 |
| 4304735502 | FEDERAL 2-11-9-17 | 11 | 090S | 170E | 14588 to 14844 | 9/20/2005 |
| 4304735769 | FEDERAL 6-11-9-17 | 11 | 090S | 170E | 14595 to 14844 | 9/20/2005 |
| 4304735162 | FEDERAL 3-12-9-17 | 12 | 090S | 170E | 14343 to 14844 | 9/20/2005 |
| 4304735163 | FEDERAL 1-12-9-17 | 12 | 090S | 170E | 14361 to 14844 | 9/20/2005 |
| 4304735164 | FEDERAL 5-12-9-17 | 12 | 090S | 170E | 14344 to 14844 | 9/20/2005 |
| 4304735165 | FEDERAL 7-12-9-17 | 12 | 090S | 170E | 14347 to 14844 | 9/20/2005 |
| 4304735166 | FEDERAL 9-12-9-17 | 12 | 090S | 170E | 14391 to 14844 | 9/20/2005 |
| 4304735167 | FEDERAL 11-12-9-17 | 12 | 090S | 170E | 14345 to 14844 | 9/20/2005 |
| 4304735168 | FEDERAL 13-12-9-17 | 12 | 090S | 170E | 14305 to 14844 | 9/20/2005 |
| 4304735169 | FEDERAL 15-12-9-17 | 12 | 090S | 170E | 14346 to 14844 | 9/20/2005 |
| 4304735516 | FEDERAL 16-12-9-17 | 12 | 090S | 170E | 14569 to 14844 | 9/20/2005 |
| 4304735517 | FEDERAL 14-12-9-17 | 12 | 090S | 170E | 14500 to 14844 | 9/20/2005 |
| 4304735518 | FEDERAL 12-12-9-17 | 12 | 090S | 170E | 14497 to 14844 | 9/20/2005 |
| 4304735519 | FEDERAL 10-12-9-17 | 12 | 090S | 170E | 14482 to 14844 | 9/20/2005 |
| 4304735520 | FEDERAL 4-12-9-17 | 12 | 090S | 170E | 14553 to 14844 | 9/20/2005 |
| 4304735748 | FEDERAL 8-12-9-17 | 12 | 090S | 170E | 14483 to 14844 | 9/20/2005 |
| 4304735749 | FEDERAL 6-12-9-17 | 12 | 090S | 170E | 14498 to 14844 | 9/20/2005 |
| 4304735750 | FEDERAL 2-12-9-17 | 12 | 090S | 170E | 14484 to 14844 | 9/20/2005 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18th STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

SEP 13 2006

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

David Gerbig
Newfield Production Company
1401 Seventeenth Street
Suite 1000
Denver, CO 80202

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

43.047, 35166
9S 17E 12

Re: Underground Injection Control Program
Permit for the Federal 9-12-9-17 Well
Uintah County, UT
EPA Permit No. UT21019-06970

Dear Mr. Gerbig:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 9-12-9-17 injection well. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended on AUG 31 2006. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this Permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The Permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this Permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.

RECEIVED

SEP 15 2006

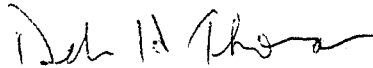
DIV. OF OIL, GAS & MINING



Printed on Recycled Paper

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 6174.

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
 Statement of Basis
 Form 7520-7 Application to Transfer Permit
 Form 7520-11 Monitoring Report
 Form 7520-12 Well Rework Record
 Form 7520-14 Plugging Plan
 Groundwater Section Guidance 35
 Groundwater Section Guidance 37
 Groundwater Section Guidance 39

cc: Final Letter only:
 Maxine Natchees
 Acting Chairperson
 Uintah & Ouray Business Committee
 Ute Indian Tribe

Chester Mills
Superintendent
U.S. Bureau of Indian Affairs
Uintah & Ouray Indian Agency

all enclosures:
S. Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Lynn Becker
Director
Energy & Minerals Dept.
Ute Indian Tribe

Michael Guinn
Vice President - Operations
Newfield Production Company
Myton, Utah

Gilbert Hunt
Associate Director
State of Utah - Natural Resources

Fluid Minerals Engineering Office
U.S. Bureau of Land Management
Vernal, Utah



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: August 2006

Permit No. UT21019-06970

Class II Enhanced Oil Recovery Injection Well

**Federal 9-12-9-17
Uintah County, UT**

Issued To

Newfield Production Company

1401 Seventeenth Street

Suite 1000

Denver, CO 80202

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Company
1401 Seventeenth Street
Suite 1000
Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 9-12-9-17
1980' FSL & 663' FEL, NESE S12, T9S, R17E
Uintah County, UT

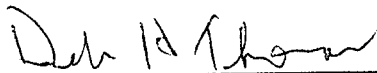
Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit. Issuance of this Permit does not convey any property rights of any sort, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of other federal, State or local law or regulation.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well or wells unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: AUG 31 2006

Effective Date AUG 31 2006



for Stephen S. Tuber
Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal No. 9-12-9-17 was drilled to a total depth (TD) of 5840 feet in the Basal Carbonate Member of the Green River Formation. This well was placed on production January 14, 2005.

- 8-5/8 inch surface casing is set at 334.63 feet in a 12-1/4 inch hole with 150 sacks of Class "G" cement which was circulated to the surface.
- 5-1/2 inch production casing is set at 5827 feet in a 7-7/8 inch hole. The casing is secured with 285 sacks of Premium Lite II Mixed and 400 sacks of 50/50 Poz mixed. The permittee locates the top of cement at 180 feet by Cement Bond Log (CBL). The EPA has calculated the top of cement at 1400 feet. The EPA analyzed the CBL and determined that the highest continuous 80% bond index cement bond was located from 3800 feet to 3904 feet. The Confining Zone is located from 3524 feet to 3578 feet.

The packer shall be set no higher than 100 feet above the top perforation.

The Schematic Diagram shows gross open perforations from 4968 feet to 5689 feet. All perforations are in the Douglas Creek Member of the Green River Formation. Additional injection perforations may be added during conversion, but must remain within the authorized injection interval.

The operator may add additional perforations within the interval 3578 feet to the top of the Wasatch Formation at a later date, provided that the operator notifies the Director of that intent, and submits an updated Well Completion Report (EPA Form No. 7520-12) and a Schematic Diagram. The Federal No. 9-12-9-17 was drilled to a total depth (TD) of 5840 feet in the Basal Carbonate Member of the Green River Formation. This well was placed on production January 14, 2005.

Federal #9-12-9-17

UT 21019-06970

Spud Date: 11/11/2004
 Put on Production: 1/14/05
 GL: 5077' KB: 5089'

Initial Production: BOPD,
 MCFD, BWPD

SURFACE CASING

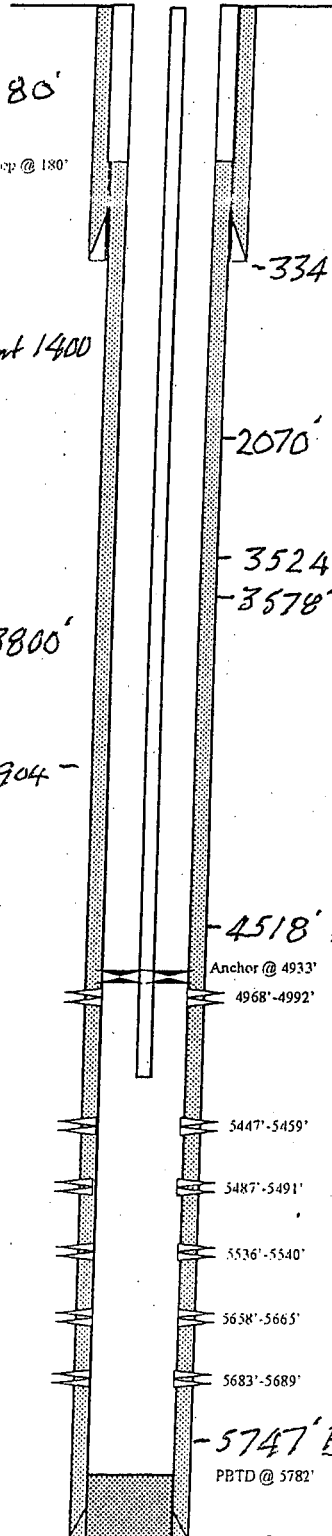
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24# *Base U9DW*
 LENGTH: 8 jts (324.63') *180'*
 DEPTH LANDED: 334.63'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cement. Est. 1 bbl cement to surface.

PRODUCTION CASING

Top EPA Cement 1400
 CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 131 jts (5829.18')
 DEPTH LANDED: 5827.18'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 285 sxs Premilite II and 400 sxs 50/50 POZ.
 CEMENT TOP AT: 180'

TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5# *80% Bond*
 NO. OF JOINTS: 167 jts (5583.82')
 TUBING ANCHOR: 5595.82' KB
 NO. OF JOINTS: 1 jt (33.44')
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 5632.06' KB
 NO. OF JOINTS: 2 jts (66.89')
 TOTAL STRING LENGTH: EOT @ 5700.50' w/ 12' KB

Proposed Injection
Wellbore DiagramFRAC JOB

1/10/05 5658'-5689' Frac CP5 sands as follows:
 35,666# of 20/40 sand in 354 bbls Lightning 17 fluid. Treated at avg. pressure of 1425 psi with average rate of 24.7 BPM. ISIP - 1700. Calculated flush: 5656 gals. Actual flush: 5699 gals.
 1/10/05 5447'-5540' Frac CP2, 3 and 4 sands as follows:
 35,380# of 20/40 sand in 520 bbls Lightning 17 fluid. Treated at avg. pressure of 1310 psi with average rate of 25.1 BPM. ISIP - 1175. Calculated flush: 5445 gals. Actual flush: 5443 gals.
 1/10/05 4968'-4992' Frac A1 sands as follows:
 105,209# of 20/40 sand in 714 bbls Lightning 17 fluid. Treated at avg. pressure of 1906 psi with average rate of 24.8 BPM. ISIP - 2000. Calculated flush: 4966 gals. Actual flush: 4880 gals.

-2070' Green River Fm.

-3524'-3578' Confining Zone
 -3578' Garden Gulch Mem

-4518' Douglas Creek

Anchor @ 4933'

4968'-4992'

5447'-5459'

5487'-5491'

5536'-5540'

5638'-5665'

5683'-5689'

-5747' Basal Carbonate

PBTD @ 5782'

SHOE @ 5827'

TD @ 5840'

-5872' Est. Washateh

PERFORATION RECORD

| | | | |
|---------|-------------|-------|----------|
| 1/4/05 | 5683'-5689' | 4 SPF | 24 holes |
| 1/4/05 | 5658'-5665' | 4 SPF | 28 holes |
| 1/10/05 | 5536'-5540' | 4 SPF | 16 holes |
| 1/10/05 | 5487'-5491' | 4 SPF | 16 holes |
| 1/10/05 | 5447'-5459' | 4 SPF | 48 holes |
| 1/10/05 | 4968'-4992' | 4 SPF | 96 holes |

NEWFIELD

Federal #9-12-9-17

1980' FSL & 663' FEL

NESE Section 12-T9S-R17E

Uintah Co, Utah

API #43-047-35166; Lease #UTU-39713

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

| | |
|-------------------------------------|--|
| WELL NAME: Federal 9-12-9-17 | |
| TYPE OF TEST | DATE DUE |
| Radioactive Tracer Survey (2) | Within 180 days following commencement of injection, and at least once every five (5) years thereafter |
| Step Rate Test | Within 180 days following commencement of injection |
| Standard Annulus Pressure | Prior to authorization to inject and at least once every five (5) years thereafter |
| Pore Pressure | Prior to authorization to inject |

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

| WELL NAME | MAXIMUM ALLOWED INJECTION PRESSURE (psi) |
|-------------------|--|
| | ZONE 1 (Upper) |
| Federal 9-12-9-17 | 1,065 |

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

| | | | |
|------------------------------|---|--------|----------------------------------|
| WELL NAME: Federal 9-12-9-17 | | | |
| FORMATION NAME | APPROVED INJECTION INTERVAL (KB, ft) | | FRACTURE GRADIENT (psi/ft) |
| | TOP | BOTTOM | |
| Green River | 3,578.00 - 5,872.00 | | 0.650 |

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

| OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS | |
|--|---|
| OBSERVE AND RECORD | Injection pressure (psig) |
| | Annulus pressure(s) (psig) |
| | Injection rate (bbl/day) |
| | Fluid volume injected since the well began injecting (bbls) |

| ANNUALLY | |
|----------|--|
| ANALYZE | Injected fluid total dissolved solids (mg/l) |
| | Injected fluid specific gravity |
| | Injected fluid specific conductivity |
| | Injected fluid pH |

| ANNUALLY | |
|----------|--|
| REPORT | Each month's maximum and averaged injection pressures (psig) |
| | Each month's maximum and averaged annulus pressure(s) (psig) |
| | Each month's averaged injection rate (bbl/day) |
| | Fluid volume injected since the well began injecting (bbl) |
| | Written results of annual injected fluid analysis |
| | Sources of all fluids injected during the year |

Records of all monitoring activities must be retained and made available for inspection at the following location:

Newfield Production Company
1401 Seventeenth Street - Suite 1000
Denver, CO 80202

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

All cement plugs will be set with tubing.

9.2 ppg plugging gel, or fresh water weighted with bentonite or treated brine, will be placed between all cement plugs.

The submitted Plug and Abandonment Plan (Plan) is based upon current construction and perforations. Any change in the well construction or additional perforations may require an EPA modification of the Plan. The EPA considers this Plan adequate to protect all underground sources of drinking water.

PLUG NO. 1: Set a Cast Iron Bridge Plug (CIBP) at 4873 feet. Place at least 100 feet of Class "G" cement on top of the CIBP.

PLUG NO. 2: Place a Class "G" cement plug inside the 5-1/2 inch casing from at least 2000 feet to at least 2200 feet.

PLUG NO. 3: Place a Class "G" cement plug inside of the 5-1/2 inch casing from the surface to a depth of 385 feet.

PLUG NO. 4: Place a cement plug in the annulus between the 5-1/2 inch casing and the 8-5/8 inch casing to a depth of 335 feet.

Federal #9-12-9-17

Spud Date: 11/11/2004
Put on Production: 1/14/05
GL: 5077' KB: 5089'

Initial Production: BOPD.
MCFD, BWPD

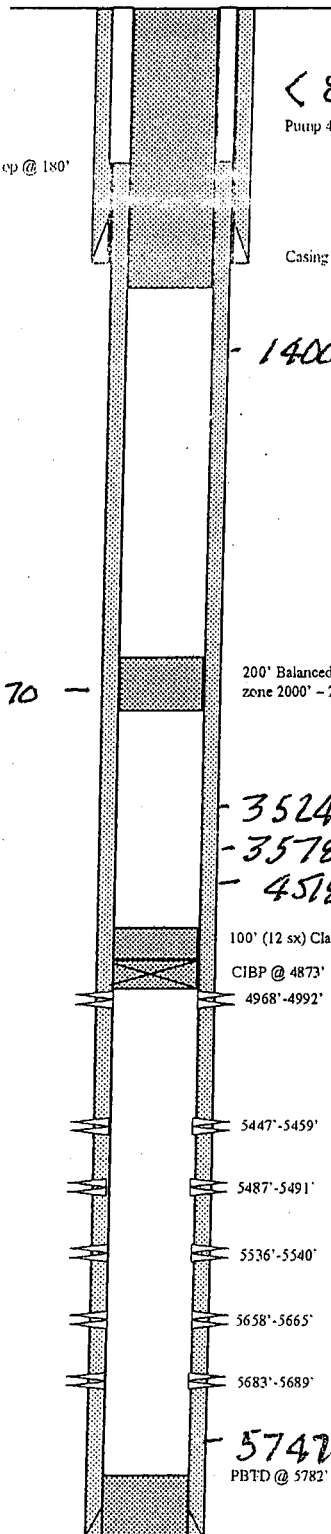
SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 8 jts (324.63')
DEPTH LANDED: 334.63'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cement. Est. 1 bbl cement to surface.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 131 jts (5829.18')
DEPTH LANDED: 5827.18'
HOLE SIZE: 7-7/8"
CEMENT DATA: 285 sxs Prem-lite II and 400 sxs 50/50 POZ.
CEMENT TOP AT: 180'

Proposed P & A
Wellbore Diagram



< 80' Base USDW.

Pump 44 sxs Class G Cement down 5-1/2" casing to 385'

Casing Shoe @ 335'

- 1400' TOC EPA

200' Balanced Plug (25 sxs) Class G Cement over water zone 2000' - 2200'

- 3524'-3578' Confining Zone
- 3578' Garden Gulch Mem
- 4518' Troughs Creek Mem

100' (12 sxs) Class G Cement plug on top of CIBP

CIBP @ 4873'

4968'-4992'

5447'-5459'

5487'-5491'

5536'-5540'

5658'-5665'

5683'-5689'

- 5742' Base Carbonate Mem

PBTD @ 5782'

SHOE @ 5827'

TD @ 5840'

- 5872' Est. W250' h

Green River Fm

2070 -

NEWFIELD

Federal #9-12-9-17

1980' FSL & 663' FEL

NESE Section 12-T9S-R17E

Uintah Co, Utah

API #43-047-35166; Lease #UTU-39713

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.

STATEMENT OF BASIS

NEWFIELD PRODUCTION COMPANY

FEDERAL 9-12-9-17

UINTAH COUNTY, UT

EPA PERMIT NO. UT21019-06970

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the conversion and operation of a "new" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Company
1401 Seventeenth Street
Suite 1000
Denver, CO 80202

on

August 26, 2005

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

Federal 9-12-9-17
1980' FSL & 663' FEL, NESE S12, T9S, R17E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal No 9-12-9-17 was placed on production January 14, 2005. The well is currently an active oil well producing from the Green River Formation Douglas Creek Member. Gross production perforations 4968 feet to 5689 feet will become, on conversion, perforations for enhanced recovery injection.

| TABLE 1.1 | | |
|---------------------------------|-------------|-------------------|
| WELL STATUS / DATE OF OPERATION | | |
| CONVERSION WELLS | | |
| Well Name | Well Status | Date of Operation |
| Federal 9-12-9-17 | Conversion | N/A |

Hydrogeologic Setting

GEOLOGIC SETTING: UINTA BASIN, UTAH

Geologic Setting

The well is located in the Newfield Production Company Greater Monument Butte area near the center of the broad, gently northward dipping south flank of the Uinta Basin. The beds dip at about 200'/mile, and there are no known surface folds or faults in the field. The lower 600' to 800' of the Uinta Formation, generally consisting of 5' to 20' thick brown lenticular fluvial sandstone and interbedded varicolored shales, outcrops at the surface in this area. The Uinta is underlain by the Green River Formation which consists of lake (lacustrine) margin sandstones, limestone and shale beds that were deposited along the edges and on the broad level floor of Lake Uinta as it expanded and contracted through time. Underlying the Green River Formation is the Wasatch Formation, which is approximately 2400' thick in this area and consists of red alluvial shales and siltstone with scattered lenticular sandstones usually 10' to 50' thick. Below the Wasatch Formation is the Mesaverde Formation; a series of interbedded continental deposits of shale, sandstone, and coal. Water samples of analyzed Mesaverde sand in the area of Natural Buttes Unit yield highly saline water.

Geologic Information

The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km²) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by ancestral Lake Uinta. Deposition in and around Lake Uinta consisted of open- to marginal-lacustrine sediments that make up the Green River Formation. Alluvial red-bed deposits that are laterally equivalent to and intertongue with the Green River make up the Colton Formation (Wasatch). More than 450 million barrels of oil (63 MT) have been produced from the Green River and Wasatch Formations in the Uinta Basin. The southern shore of Lake Uinta was very broad and flat, which allowed large transgressive and regressive shifts in the shoreline in response to climatic and tectonic-induced rise and fall of the lake. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked deltaic deposits. Distributary-mouth bars, distributary channels, and near-shore bars are the primary producing sandstone reservoirs in the area (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report 4/1/99 - 9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103). The Tertiary Duchesne River Formation alluvium generally is present at the surface in this area,

Geologic Setting (TABLE 2.1)

TABLE 2.1
GEOLOGIC SETTING
Federal 9-12-9-17

| Formation Name | Top (ft) | Base (ft) | TDS (mg/l) | Lithology |
|----------------|----------|-----------|------------|---|
| Green River | 2,070.00 | 5,872.00 | 11,424.00 | Interbedded lacustrine carbonate-shale-sand and fluvial sand and shale. |

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The approved injection zone for enhanced recovery injection is identified as the gross interval between the top of the Garden Gulch Member at 3578 feet to the top of the Wasatch Formation, estimated to be 5872 feet.

Throughout the current Newfield area of enhanced injection activity, i.e., T8-9S - R17-19E, Green River Formation water analyses generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. A few recent applications for well conversion to enhanced recovery injection contain Green River water analyses bordering on TDS approximating 10,000 mg/l. The State of Utah-Natural Resources ascribes low TDS values to several possibilities involving dilution of sands with high TDS values, e.g., recharge of the Green River Formation via Green River Formation outcrop on the Book Cliffs-Roan Cliffs; injection of very low TDS Johnson Water District Reservoir source water; and percolation of surface water via deep-seated Gilsonite veins penetrating lower Green River Members.

TABLE 2.2
INJECTION ZONES

Federal 9-12-9-17

| Formation Name | Top (ft) | Base (ft) | TDS (mg/l) | Fracture Gradient (psi/ft) | Porosity | Exempted?* |
|----------------|----------|-----------|------------|----------------------------------|----------|------------|
| Green River | 3,578.00 | 5,872.00 | 11,424.00 | 0.650 | | N/A |

* C - Currently Exempted
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The Confining Zone is identified as a 54-foot (3524 - 3578 feet) interval of shale overlying the top of the Garden Gulch Member of the Green River Formation.

TABLE 2.3
CONFINING ZONES
Federal 9-12-9-17

| Formation Name | Formation Lithology | Top (ft) | Base (ft) |
|----------------|---------------------|----------|-----------|
| Green River | Shale | 3,524.00 | 3,578.00 |

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The State of Utah "Water Wells and Springs", <http://NRWRT1.STATE.UT.US>, identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal No. 9-12-9-17. Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW), in the Uinta Formation, as less than 80 feet from the surface.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Federal 9-12-9-17

| Formation Name | Formation Lithology | Top (ft) | Base (ft) | TDS (mg/l) |
|----------------|------------------------|----------|-----------|-------------|
| Uinta | Fluvial sand and shale | 0.00 | 80.00 | < 10,000.00 |

PART III. Well Construction (40 CFR 146.22)

The Federal No. 9-12-9-17 was drilled to a total depth (TD) of 5840 feet in the Basal Carbonate Member of the Green River Formation. This well was placed on production January 14, 2005.

- 8-5/8 inch surface casing is set at 334.63 feet in a 12-1/4 inch hole with 150 sacks of Class "G" cement which was circulated to the surface.
- 5-1/2 inch production casing is set at 5827 feet in a 7-7/8 inch hole. The casing is secured with 285 sacks of Premium Lite II Mixed and 400 sacks of 50/50 Poz mixed. The permittee locates the top of cement at 180 feet by Cement Bond Log (CBL). The EPA has calculated the top of cement at 1400 feet. The EPA analyzed the CBL and determined that the highest continuous 80% bond index cement bond was located from 3800 feet to 3904 feet. The Confining Zone is located from 3524 feet to 3578 feet.

The packer shall be set no higher than 100 feet above the top perforation.

The Schematic Diagram shows gross open perforations from 4968 feet to 5689 feet. All perforations are in the Douglas Creek Member of the Green River Formation. Additional injection perforations may be added during conversion, but must remain within the authorized injection interval.

The operator may add additional perforations within the interval 3578 feet to the top of the Wasatch Formation at a later date, provided that the operator notifies the Director of that intent, and submits an updated Well Completion Report (EPA Form No. 7520-12) and a Schematic Diagram.

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Federal 9-12-9-17

| Casing Type | Hole Size (in) | Casing Size (in) | Cased Interval (ft) | Cemented Interval (ft) |
|-------------|----------------|------------------|---------------------|------------------------|
| Production | 7.88 | 5.50 | 0.00 - 5,827.18 | 1,400.00 - 5,840.00 |
| Surface | 12.25 | 8.63 | 0.00 - 334.63 | 0.00 - 334.63 |

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The construction plan for the well or wells proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for the well or wells are shown in TABLE 3.1.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

**TABLE 4.1
AOR AND CORRECTIVE ACTION**

| Well Name | Type | Status (Abandoned Y/N) | Total Depth (ft) | TOC Depth (ft) | CAP Required (Y/N) |
|------------------------|----------|---------------------------|---------------------|-------------------|-----------------------|
| Federal 12-7-9-18 | Producer | No | 5,875.00 | 96.00 | No |
| Federal No. 10-12-9-17 | Producer | No | 5,832.00 | 1,295.00 | No |
| Federal No. 16-12-9-17 | Producer | No | 5,770.00 | 1,330.00 | No |
| Federal No. 8-12-9-17 | Producer | No | 5,865.00 | 1,328.00 | No |

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less



United States Environmental Protection Agency
Washington, DC 20460

Application To Transfer Permit

Name and Address of Existing Permittee

Name and Address of Surface Owner

Locate Well and Outline Unit on
Section Plat- 640 Acres.

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| N | | | | | | | | | | | | | | | |
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| S | | | | | | | | | | | | | | | |

W E

State

County

Permit Number

Surface Location Description

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ft. from (N/S) Line of quarter section
and ft. from (E/W) Line of quarter section.

Well Activity

Well Status

Type of Permit

Class I
Class II
Brine Disposal
Enhanced Recovery
Hydrocarbon Storage
Class III
Other

Operating
Modification/Conversion
Proposed

Individual
Area
Number of Wells

Lease Number

Well Number

Name(s) and Address(es) of New Owners(s)

Name and Address of New Operator

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF SURFACE OWNER

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

SURFACE LOCATION DESCRIPTION
1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

TYPE OF PERMIT

☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

☐ Individual
☐ Area
Number of Wells _____

Lease Name

Well Number

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES

N

| | | | | | | | |
|--|--|--|--|--|--|--|--|
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W E S

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- ☐ Individual
☐ Area
 Number of Wells ____

Well Number

WELL CASING RECORD — BEFORE REWORK

| Casing | | Cement | | Perforations | | Acid or Fracture Treatment Record |
|--------|-------|--------|------|--------------|----|--------------------------------------|
| Size | Depth | Sacks | Type | From | To | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
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| | | | | | | |

WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)

| Casing | | Cement | | Perforations | | Acid or Fracture Treatment Record |
|--------|-------|--------|------|--------------|----|--------------------------------------|
| Size | Depth | Sacks | Type | From | To | |
| | | | | | | |
| | | | | | | |
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DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED



PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

TYPE OF AUTHORIZATION

- ☐
- Individual Permit
-
- ☐
- Area Permit
-
- ☐
- Rule

Number of Wells _____

Lease Name

Describe in detail the manner in which the fluid was placed
the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

| SIZE | WT(LB/FT) | TO BE PUT IN WELL (FT) | TO BE LEFT IN WELL (FT) | HOLE SIZE |
|------|-----------|------------------------|-------------------------|-----------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

WELL ACTIVITY

- ☐
- CLASS I
-
- ☐
- CLASS II
-
- ☐
- Brine Disposal
-
- ☐
- Enhanced Recovery
-
- ☐
- Hydrocarbon Storage
-
- ☐
- CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUG

- ☐
- The Balance Method
-
- ☐
- The Dump Saker Method
-
- ☐
- The Two-Plug Method
-
- ☐
- Other

CEMENTING TO PLUG AND ABANDON DATA:

| | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
|--|---------|---------|---------|---------|---------|---------|---------|
| Size of Hole or Pipe in which Plug Will Be Placed (inch) | | | | | | | |
| Depth to Bottom of Tubing or Drill Pipe (ft.) | | | | | | | |
| Sacks of Cement To Be Used (each plug) | | | | | | | |
| Slurry Volume To Be Pumped (cu. ft.) | | | | | | | |
| Calculated Top of Plug (ft.) | | | | | | | |
| Measured Top of Plug (if tagged ft.) | | | | | | | |
| Slurry Wt. (Lb./Gal.) | | | | | | | |
| Use Cement or Other Material (Class III) | | | | | | | |

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

| From | To | From | To |
|------|----|------|----|
| | | | |
| | | | |
| | | | |
| | | | |

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 35
Procedures to follow when excessive annular pressure is
observed on a well.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

The following procedure is intended as an aid to UIC field inspectors when they encounter excessive annular pressure on a well. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

Usually, annular pressure is a direct indication of a loss of mechanical integrity. In some instances, recurring annular pressure may be caused by fluctuations in the temperature of the injected fluid. These temperature fluctuations may cause the annular pressure to increase when a hot fluid is being injected and decrease as the temperature of the injected fluid cools. The presence of temperature-induced pressure on the annulus does not indicate a malfunction in the casing/tubing/packer system and is not considered a loss of mechanical integrity. Wells exhibiting recurring temperature-induced annular pressure may be allowed to continue injecting if a temperature monitoring program is approved and followed.

This guidance was written to help determine the cause of annular pressure. When the procedures in this guidance are followed, any major mechanical integrity problems (a breach in the casing/tubing/packer system) will become apparent quickly. A quick determination will allow the operator to begin follow-up procedures immediately to prevent contamination to USDWs.

Use Section Guidance No. 35 to determine if the well has experienced a loss of mechanical integrity. If you find that there is a loss of mechanical integrity, use *Headquarters Guidance No. 76. - Follow-up to loss of Mechanical Integrity for Class II Wells* to bring the well back into compliance. The use of Section Guidance No. 35 is not to be confused with, nor does it supersede any provision of Headquarters Guidance No. 76. Instead, the two guidance documents are meant to work together to identify and to remedy any potential mechanical integrity failure.

A flowchart for Section Guidance No. 35 is included for quick reference in the field.

PROCEDURES TO FOLLOW WHEN EXCESSIVE ANNULAR PRESSURE IS OBSERVED

During field inspections, the following procedures should be followed when excessive annular pressure is observed. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

NOTE CONDITIONS
AT THE WELL

Note tubing and annular pressure readings, and the operating status of the well (injecting, shut-in, etc.) on the UIC inspection form.

SEE IF ANNULUS
PRESSURE WILL
BLEED-OFF

Attempt to bleed the pressure from the annulus by having the operator open the annulus (for a maximum of sixty seconds).

It is the operator's responsibility to collect and dispose of any fluids bled from the annulus.

DID THE ANNULAR
PRESSURE BLEED
TO 0 PSI WITHIN
SIXTY SECONDS?

YES

NO

Have the operator close the annulus.

Have the operator close the annulus.

On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.

On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

SEE IF PRESSURE
RETURNS WITHIN
15 MINUTES

Continue to monitor the well for annulus pressure return for at least 15 minutes after the annulus valve is closed.

DOES PRESSURE
RETURN TO THE
ANNULUS AFTER 15
MINUTES?

YES

NO

On your inspection form, note the annulus and tubing pressures recorded after 15 minutes.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

DOES PRESSURE
RETURN TO THE
ANNULUS WITHIN
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Mechanical Integrity test.

Compliance officer will require the operator to conduct the test within 14 days.

The well is considered to have mechanical integrity.

END PROCEDURE.

DOES THE WELL
PASS THE MIT?

YES

NO

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE

DOES PRESSURE
RETURN TO THE
ANNULUS WITHIN
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Monitoring Program to determine the cause of recurrent annular pressure.

The well is considered to have mechanical integrity.

END PROCEDURE.

Compliance officer will require the operator to begin the Monitoring program within 14 days.

Conduct unannounced inspections at the well during the Monitoring Program.

IS THE ANNULUS
PRESSURE CAUSED
BY TEMPERATURE?

YES

NO

EPA Technical Expert will design a proper Temperature Monitoring Program that allows injection to continue while tracking relationship between temperature and recurrent annulus pressure.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

Compliance officer will require the operator to cease injection immediately if the operator fails to follow the Temperature Monitoring Program.

END PROCEDURE.

Compliance officer will require the operator to cease injection immediately if recurrent annular pressures cannot be explained by the results of the Temperature Monitoring Program.

Compliance officer will require annual Mechanical Integrity Tests using the standard pressure method.

14-DAY PRESSURE MONITORING

Please use this form to report data for a 14-day period after pressure is bled from the tubing-casing annulus. Please telephone EPA in Denver as soon as possible when/if pressure returns to the annulus. This data will be used to determine the cause(s) of recurrent annular pressure.

NOTE: DO NOT BLEED PRESSURE FROM ANNULUS DURING THE 14-DAY MONITORING PERIOD.

| | DATE | TIME | ANNULUS PRESSURE (psi) | TUBING PRESSURE (psi) | WELL INJECTING (YES/NO) |
|----|------|------|------------------------------|-----------------------------|-------------------------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
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| 13 | | | | | |
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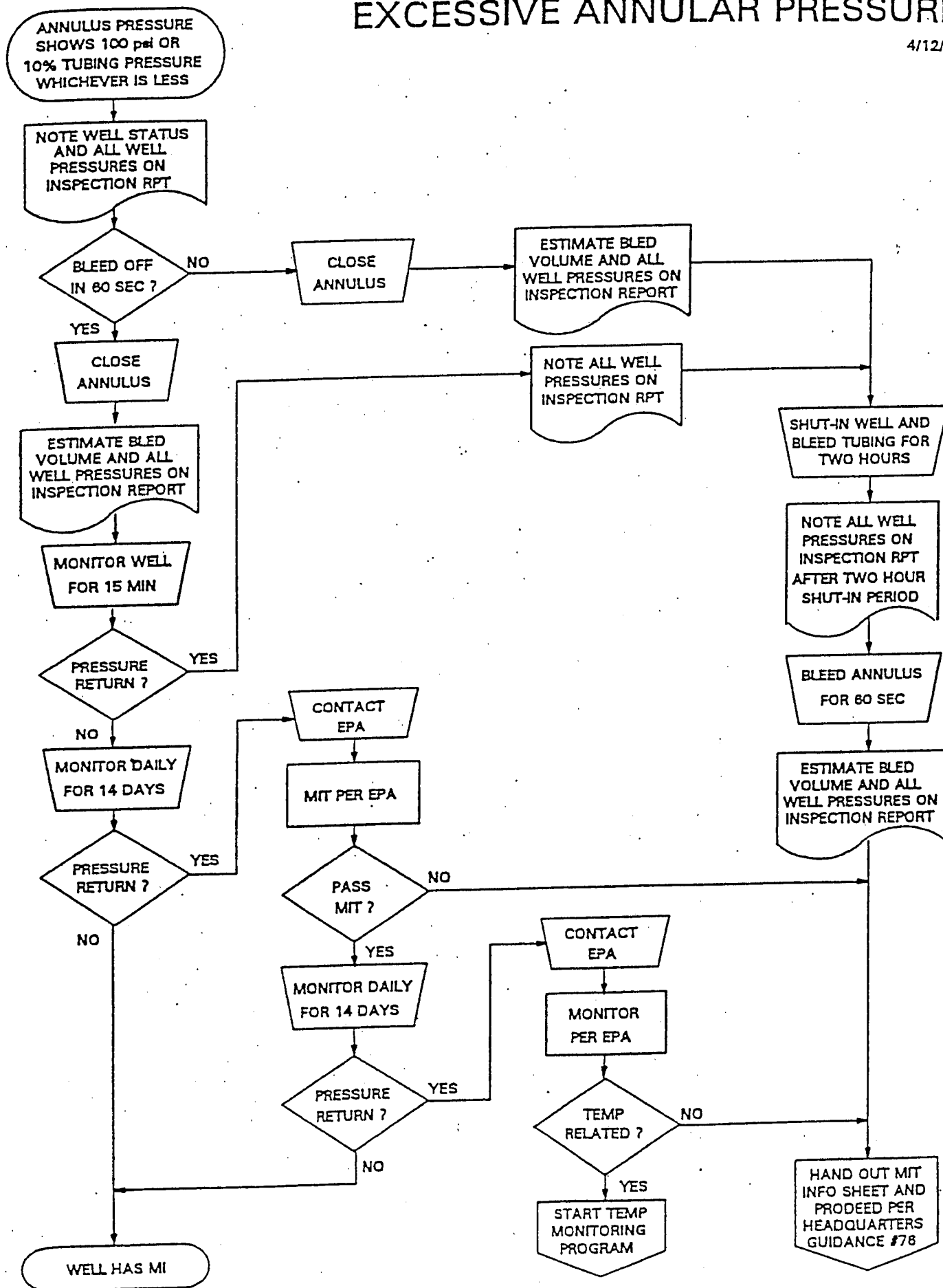
WELL NAME: _____

REPORTING OFFICER: _____

NATURE: _____ DATE: _____

EXCESSIVE ANNULAR PRESSURE

4/12/94





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES

- 1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless Tom Pike, Chief, Underground Injection Control Implementation (UIC-I) Section [(303) 293-1544] allows for temporary operation of the well.
- 2) WITHIN 24 HOURS - Verbally notify the UIC-I Section Chief of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.
- 3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 300
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity
for a Class II injection well permit.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the

test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____
Test conducted by: _____
Others present: _____

| | | |
|--------------------------|------------------------------------|----------------------------|
| Well Name: _____ | Type: ER SWD | Status: AC TA UC |
| Field: _____ | | |
| Location: _____ | Sec: _____ T _____ N/S R _____ E/W | County: _____ State: _____ |
| Operator: _____ | | |
| Last MIT: ____/____/____ | Maximum Allowable Pressure: _____ | PSIG |

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☐ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

| MITDATA TABLE | | Test #1 | Test #2 | Test #3 |
|---|---|---|---|---|
| TUBING PRESSURE | | | | |
| Initial Pressure | psig | psig | psig | psig |
| End of test pressure | psig | psig | psig | psig |
| CASING / TUBING ANNULUS PRESSURE | | | | |
| 0 minutes | psig | psig | psig | psig |
| 5 minutes | psig | psig | psig | psig |
| 10 minutes | psig | psig | psig | psig |
| 15 minutes | psig | psig | psig | psig |
| 20 minutes | psig | psig | psig | psig |
| 25 minutes | psig | psig | psig | psig |
| 30 minutes | psig | psig | psig | psig |
| minutes | psig | psig | psig | psig |
| minutes | psig | psig | psig | psig |
| RESULT | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

Does the annulus pressure build back up after the test? ☐ Yes ☐ No



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal)
Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which

would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter

depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording

chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the

well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

| | | |
|--------------------------|--|----------------------------|
| Well Name: _____ | Type: ER SWD | Status: AC TA UC |
| Field: _____ | | |
| Location: _____ | Sec: _____ T _____ N / S R _____ E / W | County: _____ State: _____ |
| Operator: _____ | | |
| Last MIT: ____/____/____ | Maximum Allowable Pressure: _____ | PSIG |

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☐ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

| MIT DATA TABLE | | Test #1 | Test #2 | Test #3 |
|----------------------|-------------------|-------------------|-------------------|---------|
| TUBING | | PRESSURE | | |
| Initial Pressure | psig | psig | psig | |
| End of test pressure | psig | psig | psig | |
| CASING / TUBING | | ANNULUS PRESSURE | | |
| 0 minutes | psig | psig | psig | |
| 5 minutes | psig | psig | psig | |
| 10 minutes | psig | psig | psig | |
| 15 minutes | psig | psig | psig | |
| 20 minutes | psig | psig | psig | |
| 25 minutes | psig | psig | psig | |
| 30 minutes | psig | psig | psig | |
| minutes | psig | psig | psig | |
| minutes | psig | psig | psig | |
| RESULT | [] Pass [] Fail | [] Pass [] Fail | [] Pass [] Fail | |

| | | | | |
|--|--|--|------------------------------|--|
| DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING | | | | 5. LEASE DESIGNATION AND SERIAL NUMBER: U-39713 |
| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | | | | 7. UNIT or CA AGREEMENT NAME: SUNDANCE UNIT |
| 1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER | | | | 8. WELL NAME and NUMBER: FEDERAL 9-12-9-17 |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | | | | 9. API NUMBER: 4304735166 |
| 3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 | | | PHONE NUMBER 435.646.3721 | 10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE |
| 4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1980 FSL 663 FEL | | | | COUNTY: UINTAH |
| OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESE, 12, T9S, R17E | | | | STATE: UT |

| TYPE OF SUBMISSION | | TYPE OF ACTION | |
|--|---|--|---|
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will <hr/> | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: - |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <hr/> 10/19/2006 | | | |

The subject well has been converted from a producing oil well to an injection well on 10/19/06. On 10/25/06 Dan Jackson with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 10/27/06. On 10/27/06 the casing was pressured up to 1220 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 475 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21019-06970 API# 43-047-35166

Accepted by the
Utah Division of
Oil, Gas and Mining
DATE 12-10-2009 ONLY

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NOV 13 2006

DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: Trifley J. Ruzsa

Others present: _____

| | | |
|---|-----------------------------------|------------------|
| Well Name: <u>Federal 9-12-9-17</u> | Type: ER SWD | Status: AC TA UC |
| Field: <u>MONUMENT BUTTE</u> | | |
| Location: <u>NE/SE</u> Sec: <u>12</u> T <u>9</u> N <u>19</u> R <u>17</u> E <u>W</u> County: <u>WINTA</u> State: <u>UT</u> | | |
| Operator: <u>NEWFIELD</u> | | |
| Last MIT: ____/____/____ | Maximum Allowable Pressure: _____ | PSIG |

Is this a regularly scheduled test? ☐ Yes ☒ No
 Initial test for permit? ☒ Yes ☐ No
 Test after well rework? ☐ Yes ☒ No
 Well injecting during test? ☐ Yes ☒ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 4 psig

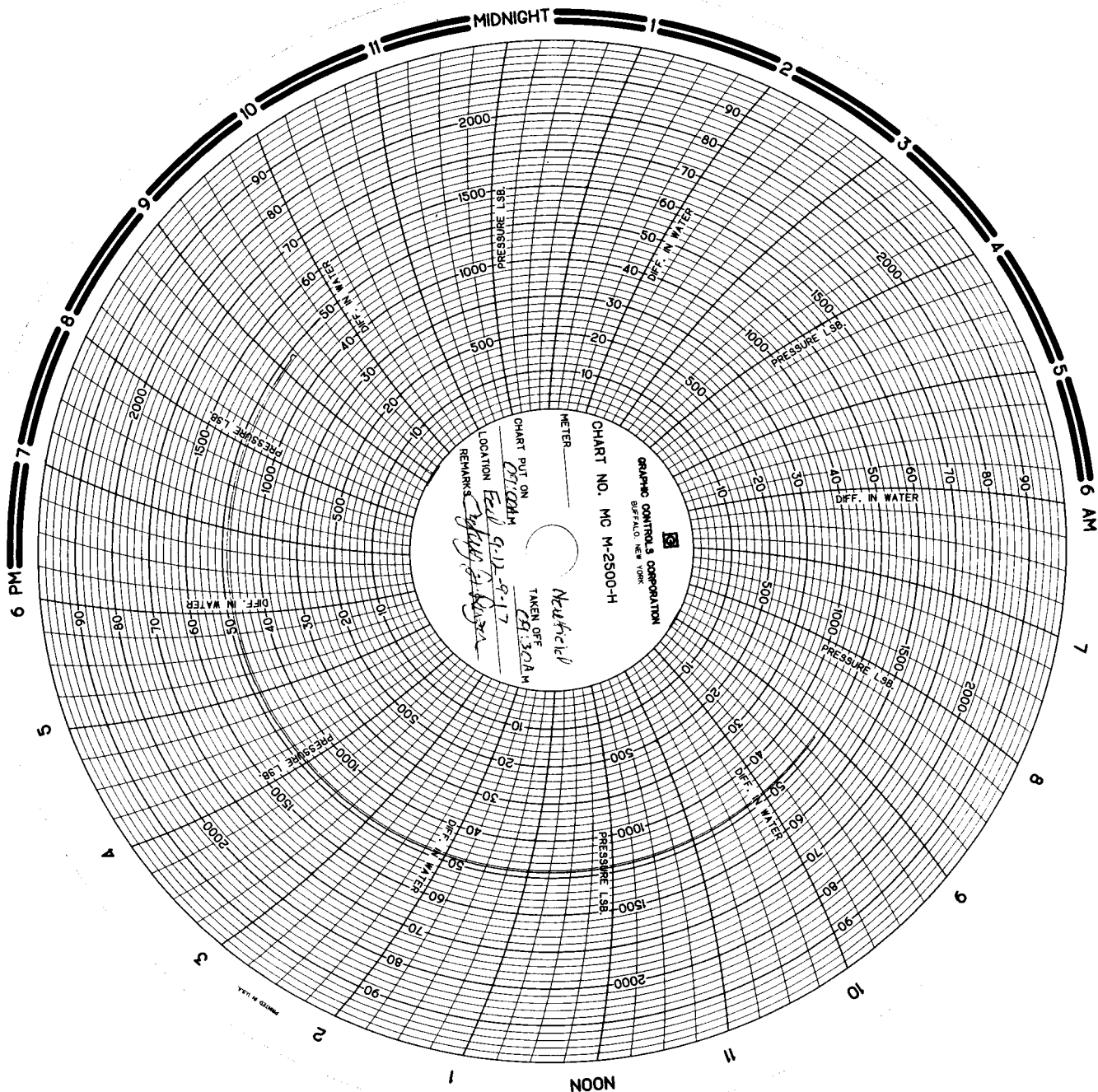
| MIT DATA TABLE | Test #1 | Test #2 | Test #3 |
|------------------------|---|---|---|
| TUBING | PRESSURE | | |
| Initial Pressure | <u>475</u> psig | psig | psig |
| End of test pressure | <u>475</u> psig | psig | psig |
| CASING / TUBING | ANNULUS | PRESSURE | |
| 0 minutes | <u>1220</u> psig | psig | psig |
| 5 minutes | <u>1220</u> psig | psig | psig |
| 10 minutes | <u>1220</u> psig | psig | psig |
| 15 minutes | <u>1220</u> psig | psig | psig |
| 20 minutes | <u>1220</u> psig | psig | psig |
| 25 minutes | <u>1220</u> psig | psig | psig |
| 30 minutes | <u>1220</u> psig | psig | psig |
| _____ minutes | psig | psig | psig |
| _____ minutes | psig | psig | psig |
| RESULT | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
USA UTU-39713

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
SUNDANCE UNIT

8. Well Name and No.
FEDERAL 9-12-9-17

9. API Well No.
4304735166

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
UINTAH, UT

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980 FSL 663 FFL
NESE Section 12 T9S R17E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Change Status, Put Well |
| | <input checked="" type="checkbox"/> Convert to | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | on Injection |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above referenced well was put on injection at 11:00 a.m. on 12/11/06.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Mandie Crozier

Signature

Title

Regulatory Specialist

Date

12/14/2006

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

DEC 15 2006

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

1. Type of Well
☒ Oil Well ☐ Gas Well ☒ Other *WT*

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980 FSL 663 FEL
NESE Section 12 T9S R17E

5. Lease Serial No.

USA UTU-39713

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
SUNDANCE UNIT

8. Well Name and No.
FEDERAL 9-12-9-17

9. API Well No.
4304735166

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
UINTAH, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Step Rate Test _____ |
| | <input type="checkbox"/> Convert to | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | _____ |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

A step rate test was conducted on the subject well on April 6, 2007. Results from the test indicate that the fracture gradient is .651 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1050 psi.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

I hereby certify that the foregoing is true and
correct (Printed/ Typed)

Chevenne Bateman

Signature

Title

Well Analyst Foreman

Date

04/18/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or
certify that the applicant holds legal or equitable title to those rights in the subject lease
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

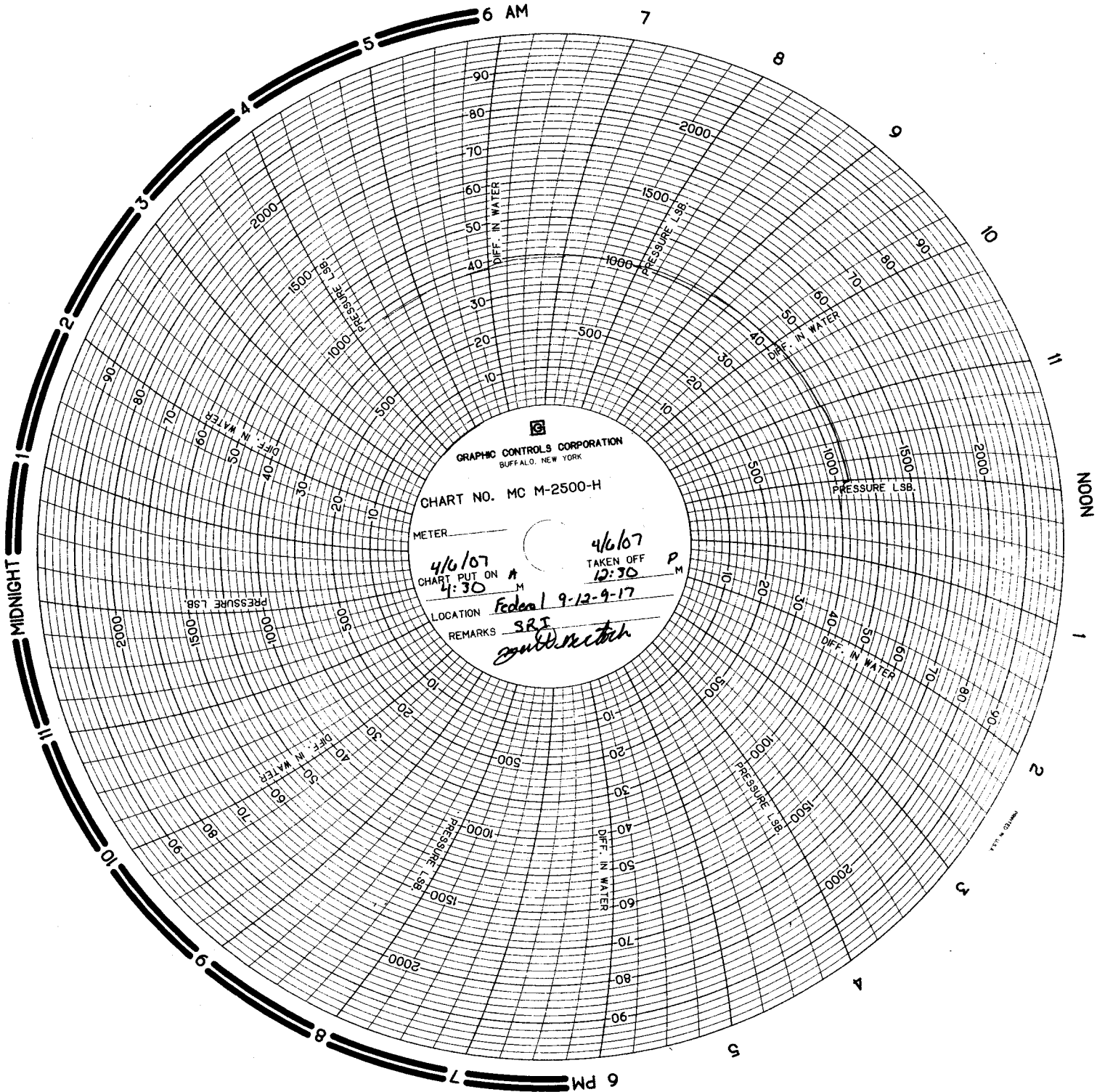
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

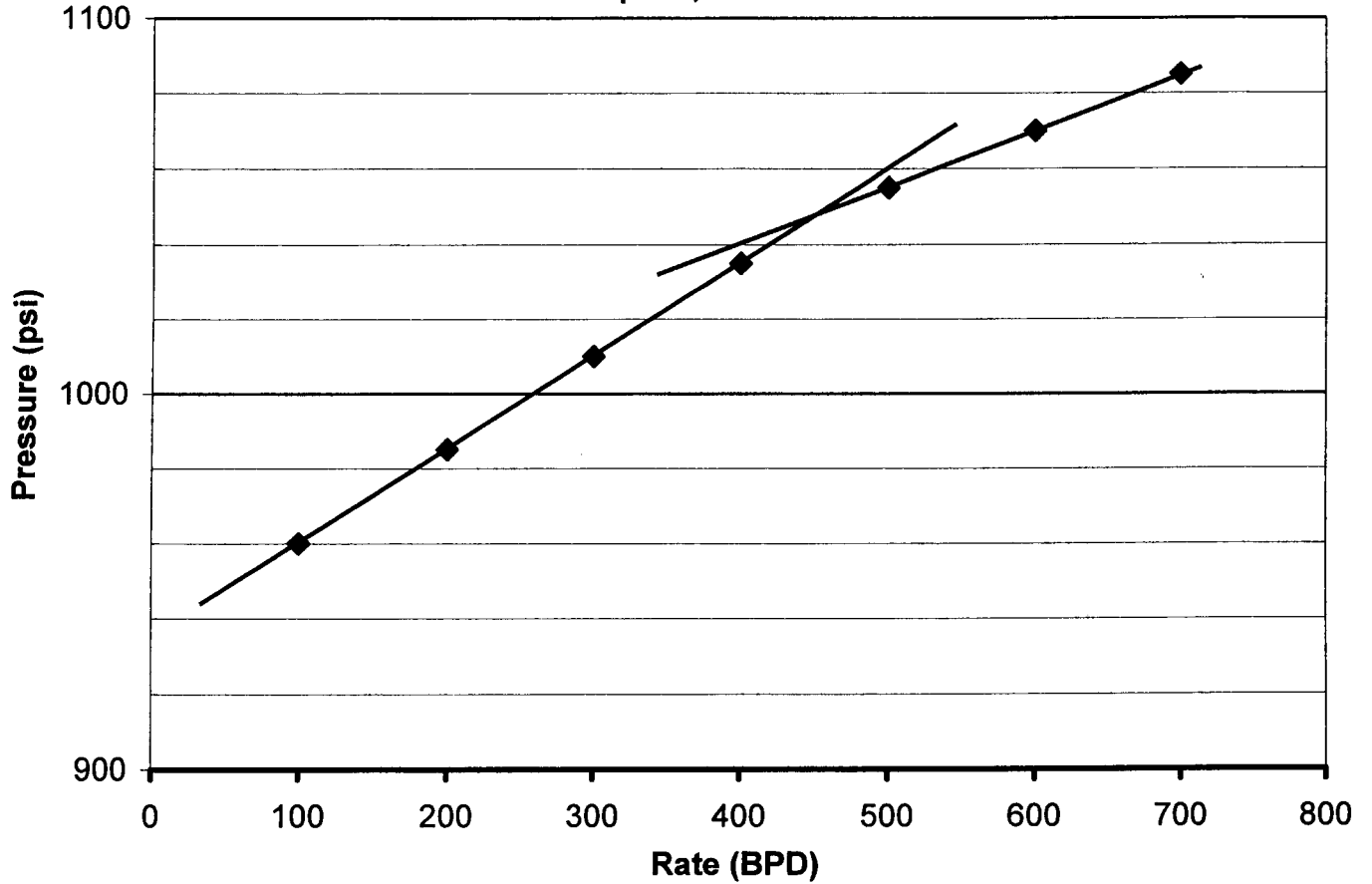
RECEIVED

APR 20 2007

DIV. OF OIL, GAS & MINING

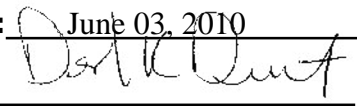


Federal 9-12-9-17
Sundance Unit
Step Rate Test
April 6, 2007



Start Pressure: 940 psi
Instantaneous Shut In Pressure (ISIP): 1050 psi
Top Perforation: 4968 feet
Fracture pressure (Pfp): 1050 psi
FG: 0.651 psi/ft

| Step | Rate(bpd) | Pressure(psi) |
|------|-----------|---------------|
| 1 | 100 | 960 |
| 2 | 200 | 985 |
| 3 | 300 | 1010 |
| 4 | 400 | 1035 |
| 5 | 500 | 1055 |
| 6 | 600 | 1070 |
| 7 | 700 | 1085 |

| | | |
|--|---|--|
| STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | | FORM 9 |
| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-39713 |
| 1. TYPE OF WELL Water Injection Well | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | | 7. UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202 | | 8. WELL NAME and NUMBER: FEDERAL 9-12-9-17 |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 12 Township: 09.0S Range: 17.0E Meridian: S | | 9. API NUMBER: 43047351660000 |
| PHONE NUMBER: 303 382-4443 Ext | | 9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH |
| COUNTY: UTAH | | STATE: UTAH |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | | |
| TYPE OF SUBMISSION | TYPE OF ACTION | |
| <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/5/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date: | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: </div> </div> | |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Newfield Production Company requests the approval to open additional pay in the D2, D3 and C sands for the subject well. Please see attached PDF document for the procedure details and well bore diagram. Please contact Paul Weddle at 303-383-4117 with any questions. | | |
| <div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining </div> | | Date: June 03, 2010 By:  |
| NAME (PLEASE PRINT) Sam Styles | | PHONE NUMBER 303 893-0102 |
| SIGNATURE N/A | | TITLE Engineering Tech DATE 5/24/2010 |

Newfield Production Company**Federal 9-12-9-17****Procedure for:** Injection Well OAP D2, D3, and C - casing frac**Well Status:** See attached Wellbore Diagram
AFE #**Engineer:** Paul Weddle pweddle@newfield.com
mobile 720-233-1280
office 303-383-4117**PROCEDURE**

- 1 Blow down tbg. MIRU SU. ND Wellhead and RU BOP. Unset packer and TOO H visually inspecting 2-7/8" production tbg.
- 2 RU wireline unit. Make 4-3/4" gauge ring run to +/- **4,755**
Only Run B&S if required. RIH and perforate the following interval w/ 3SPF 120deg phasing:
- 3 RIH with Frac plug and guns. Set Plug @ **4755'** and perforate the following interval w/ 3SPF 120deg phasing:

| | | | |
|-----------|------------------|------|----------------|
| C | 4698-4703 | 3spf | 120deg phasing |
| D3 | 4632-4635 | 3spf | 120deg phasing |
| D2 | 4608-4610 | 3spf | 120deg phasing |
| D2 | 4596-4598 | 3spf | 120deg phasing |
| D2 | 4588-4590 | 3spf | 120deg phasing |

- 4 RU frac equip. Frac the **all sands** down casing w/**45,000**# 20/40sand at 40 BPM with max sand concentration of 8ppg per BJ recommendation.
- 5 Flowback well immediately @ 3-4 BPM until dead.
- 11 PU bit and 2-7/8" tubing. Drill out Plug set at **4755'**. GIH and clean out to PBTD @ **5782'**. POOH with tubing and bid.
- 8 PU Arrow Set 1 packer, SN and 2-7/8" 6.5# J55 injection Tubing. RIH and set packer @ +/- **4538'**
- 9 Pressure Test Tubing to 3,000psi for 30 min. Retrieve SW w/sandline.
- 10 Pump Packer fluid down tubing-casing annulus. ND BOP. Set packer w/+/- 15Klbs tension. NU wellhead. Pressure test tubing-casing annulus to +/- 1,000psi for 30mins. RDMO and prepare for MIT.

Federal #9-12-9-17

Spud Date: 11/11/2004
Put on Production: 1/14/05
GL: 5077' KB: 5089'

Initial Production: BOPD,
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 8 jts (324.63')
DEPTH LANDED: 334.63'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt. Est. 1 bbl cmt to surface.

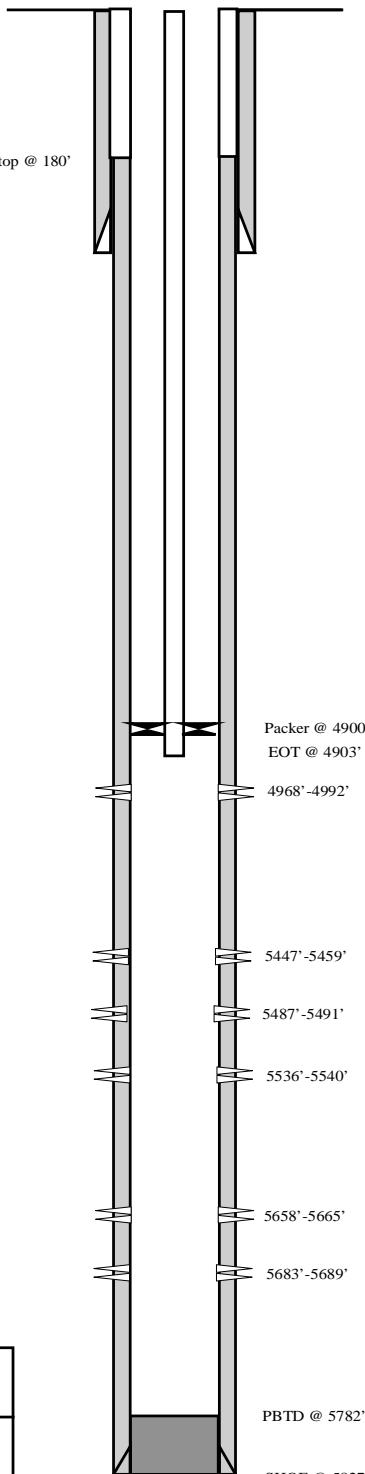
PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 131 jts (5829.18')
DEPTH LANDED: 5827.18'
HOLE SIZE: 7-7/8"
CEMENT DATA: 285 sxs Premlite II and 400 sxs 50/50 POZ.
CEMENT TOP AT: 180'

TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#
NO. OF JOINTS: 146 jts (4883.73')
SEATING NIPPLE: 2 7/8" (1.10')
SN LANDED AT: 4895.73' KB
TOTAL STRING LENGTH: EOT @ 4903.08' w/ 12' KB

Injection Wellbore Diagram



FRAC JOB

| | | |
|----------|-------------|--|
| 1/10/05 | 5658'-5689' | Frac CP5 sands as follows: 35,666# of 20/40 sand in 354 bbls Lightning 17 fluid. Treated at avg. pressure of 1425 psi with average rate of 24.7 BPM. ISIP - 1700. Calculated flush: 5656 gals. Actual flush: 5699 gals. |
| 1/10/05 | 5447'-5540' | Frac CP2, 3 and 4 sands as follows: 63,580# of 20/40 sand in 520 bbls Lightning 17 fluid. Treated at avg. pressure of 1310 psi with average rate of 25.1 BPM. ISIP - 1175. Calculated flush: 5445 gals. Actual flush: 5443 gals. |
| 1/10/05 | 4968'-4992' | Frac A1 sands as follows: 105,209# of 20/40 sand in 714 bbls Lightning 17 fluid. Treated at avg. pressure of 1906 psi with average rate of 24.8 BPM. ISIP - 2000. Calculated flush: 4966 gals. Actual flush: 4880 gals. |
| 10/19/06 | | Well converted to an Injection well. |
| 11/8/06 | | MIT completed and submitted. |

PERFORATION RECORD

| | | | |
|---------|-------------|-------|----------|
| 1/4/05 | 5683'-5689' | 4 SPF | 24 holes |
| 1/4/05 | 5658'-5665' | 4 SPF | 28 holes |
| 1/10/05 | 5536'-5540' | 4 SPF | 16 holes |
| 1/10/05 | 5487'-5491' | 4 SPF | 16 holes |
| 1/10/05 | 5447'-5459' | 4 SPF | 48 holes |
| 1/10/05 | 4968'-4992' | 4 SPF | 96 holes |



Federal #9-12-9-17

1980' FSL & 663' FEL
NESE Section 12-T9S-R17E
Uintah Co, Utah

API #43-047-35166; Lease #UTU-39713

CD 11/8/06

RECEIVED May 24, 2010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

| | | |
|--|--|--|
| 1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER | | 5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-39713 |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| 3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 | | 7. UNIT or CA AGREEMENT NAME: GMBU |
| 4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1980 FSL 663 FEL | | 8. WELL NAME and NUMBER: FEDERAL 9-12-9-17 |
| OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESE, 12, T9S, R17E | | 9. API NUMBER: 4304735166 |
| | | 10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT |
| | | COUNTY: UINTAH |
| | | STATE: UT |

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|---|--|--|
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLAIR |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| 07/19/2010 | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/STOP) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: - MIT |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
The above subject well was recompleted. The following perforations were added in the Green River Formation:

C 4698-4703' 3 JSPF 15 holes
D3 4632-4635' 3 JSPF 9 holes
D2 4608-4610' 3 JSPF 6 holes
D2 4596-4598' 3 JSPF 6 holes
D2 4588-4590' 3 JSPF 6 holes

On 7/16/2010 Nathan Wiser with the EPA was contacted concerning the Workover MIT on the above listed well. On 7/19/2010 the csg was pressured up to 1248 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbq pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA # UT21019-06970 API # 43-047-35166

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant
SIGNATURE  DATE 07/19/2010

(This space for State use only)

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JUL 22 2010

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980 FSL 663 FEL

NESE Section 12 T9S R17E

5. Lease Serial No.

USA UTU-39713

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

FEDERAL 9-12-9-17

9. API Well No.

4304735166

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

UINTAH, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input checked="" type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | MIT |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above subject well was recompleted. The following perforations were added in the Green River Formation:

C 4698-4703' 3 JSPF 15 holes
D3 4632-4635' 3 JSPF 9 holes
D2 4608-4610' 3 JSPF 6 holes
D2 4596-4598' 3 JSPF 6 holes
D2 4588-4590' 3 JSPF 6 holes

On 7/16/2010 Nathan Wiser with the EPA was contacted concerning the Workover MIT on the above listed well. On 7/19/2010 the csg was pressured up to 1248 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA # UT21019-06970 API # 43-047-35166

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JUL 22 2010

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Lucy Chavez-Naupoto

Signature

Title

Administrative Assistant

Date

07/19/2010

DIV. OF OIL, GAS & MINING

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

Daily Activity Report

Format For Sundry

FEDERAL 9-12-9-17**4/1/2010 To 8/30/2010****6/28/2010 Day: 1****Recompletion**

NC #3 on 6/28/2010 - MIRUSU. NU BOP & release PKR. - MIRUSU. X- over to tbq eq. ND wellhead. NU BOP. RU rig floor. Release Pkr. Flush tbq w/ 35 bbls water @ 250°. TOH tallying w/ 40- jts 2 7/8. SDFD.

Daily Cost: \$0**Cumulative Cost: \$3,954**

6/29/2010 Day: 2**Recompletion**

NC #3 on 6/29/2010 - RU Perforators to set HE Plg, perf & run gauge ring. - Flush tbq w/ 50 bbls water @ 250°. TOH w/ 106- jts 2 7/8, & Pkr. RU Perforators to set HE Plg, run gauge ring. Gauge ring stacked out @ 5674'. (108' of fill). Pressure test Plg to 3000 psi w/ 5 bbls water. Good test. RIH & perforate C- 4698'-4703', D3- 4632'-35', D2- 4608'-10', D2- 4596'-98', D2- 4588'-90'. RD Perforators. RU hot oil truck to break down new perfs. Pers broke @ 3100 psi @ 1 bpm w/ 5 bbls water. RU BJ services to frac new perfs. RD BJ & OWU to flow back. Well flowed back 80 bbls fluid. PU TIH w/ Ret head & 40- jts 2 7/8. SDFD.

Daily Cost: \$0**Cumulative Cost: \$43,791**

6/30/2010 Day: 3**Recompletion**

NC #3 on 6/30/2010 - TIH w/ tbq to retrieve RBP. Clean out to PBTD. - TIH w/ tbq to fill @ 4620'. Clean out fill tbq RBP @ 4760'. Release RBP. TIH w/ tbq to fill @ 5679'. TOH w/ 172- jts 2 7/8, & RBP. PU TIH w/ 5 1/2 scraper w/ 4 3/4 rock bit, & 172- jts 2 7/8. Tag tight spot @ 5679'. Work scraper through tight spot until worked free. TIH w/ tbq to PBTD @ 5782'. LD 40- jts 2 7/8. TOH w/ 135- jts 2 7/8, bit & scraper. PU TIH w/ Arrowset Pkr, SN, 135- jts 2 7/8. SDFD.

Daily Cost: \$0**Cumulative Cost: \$52,268**

7/1/2010 Day: 4**Recompletion**

NC #3 on 7/1/2010 - Pressure test tbq & csg. - Pump 20 bbls water down tbq & drop std valve. RU sandline to push std valve to SN. Pressure test tbq to 3000 psi. No luck. RU sandline to retrieve std valve. RD sandline. TOH breaking inspecting & doping pins w/ 135- jts 2 7/8, SN, & Pkr. TIH w/ Pkr, SN, 135- jts 2 7/8. Drop std valve down tbq & pressure test tbq to 3000 psi. Good test. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 60 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 18000 tension. NU wellhead. Pressure csg up to 1500 psi. Leave pressure on csg. SDFD.

Daily Cost: \$0**Cumulative Cost: \$59,420****RECEIVED****JUL 22 2010****DIV. OF OIL, GAS & MINING**

7/2/2010 Day: 5**Recompletion**

NC #3 on 7/2/2010 - Check csg pressure. - Check csg pressure. Pressure dropped to 1050 psi.

Pump csg up to 1500 psi. Csg held solid for 1 hr. Good test. RDMOSU. READY FOR MIT!!

Daily Cost: \$0

Cumulative Cost: \$60,679

7/19/2010 Day: 6

Workover

Rigless on 7/19/2010 - Workover MIT - On 7/16/2010 Nathan Wiser with the EPA was contacted concerning the Workover MIT on the above listed well (Federal 9-12-9-17). On 7/19/2010 the csg was pressured up to 1248 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbp pressure was 0 psig during the test. There was not an EPA representative available to witness the test. Final Report EPA# UT 21019-06970 API#43-047-35166 **Finalized**

Daily Cost: \$0

Cumulative Cost: \$60,979

Pertinent Files: Go to File List

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JUL 22 2010

DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

RECEIVED

JUL 22 2010

EPA Witness: _____

Date: 7 / 19 / 2010 DIV. OF OIL, GAS & MINING

Test conducted by: Alfredo Rios

Others present: _____

| | | |
|---|--|-------------------------|
| Well Name: <u>Federal 9-12-9-17</u> | Type: <u>ER SWD</u> | Status: <u>AC TA UC</u> |
| Field: <u>Monument Butte</u> | | |
| Location: <u>9-12-9-17</u> Sec: <u>12</u> T <u>9</u> N <u>15</u> R <u>17</u> E W County: <u>Utah</u> State: <u>Utah</u> | | |
| Operator: <u>Newfield</u> | | |
| Last MIT: <u>1</u> / <u>1</u> | Maximum Allowable Pressure: <u>1050</u> PSIG | |

Is this a regularly scheduled test? ☐ Yes ☒ No
 Initial test for permit? ☐ Yes ☒ No
 Test after well rework? ☒ Yes ☐ No
 Well injecting during test? ☐ Yes ☒ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 psig

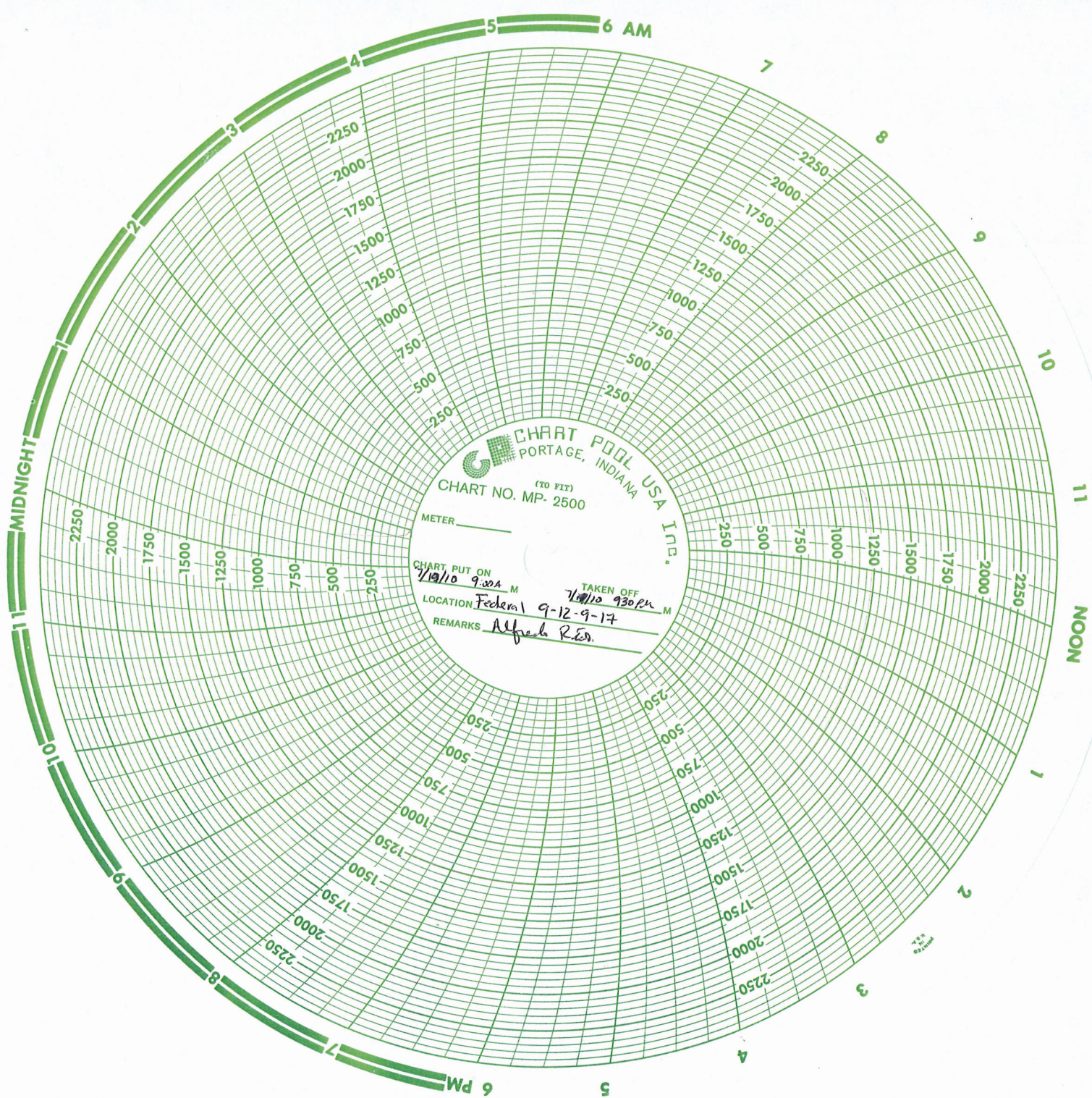
| MIT DATA TABLE | | Test #1 | Test #2 | Test #3 |
|------------------------|---|---|---|---|
| TUBING | | PRESSURE | | |
| Initial Pressure | <u>400</u> psig | psig | psig | psig |
| End of test pressure | <u>400</u> psig | psig | psig | psig |
| CASING / TUBING | | ANNULUS PRESSURE | | |
| 0 minutes | <u>1248</u> psig | psig | psig | psig |
| 5 minutes | <u>1248</u> psig | psig | psig | psig |
| 10 minutes | <u>1248</u> psig | psig | psig | psig |
| 15 minutes | <u>1248</u> psig | psig | psig | psig |
| 20 minutes | <u>1248</u> psig | psig | psig | psig |
| 25 minutes | <u>1248</u> psig | psig | psig | psig |
| 30 minutes | <u>1248</u> psig | psig | psig | psig |
| _____ minutes | psig | psig | psig | psig |
| _____ minutes | psig | psig | psig | psig |
| RESULT | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____



RECEIVED

JUL 22 2010

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-39713

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GMBU

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:
OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:
FEDERAL 9-12-9-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4304735166

3. ADDRESS OF OPERATOR:
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 1980 FSL 663 FEL

COUNTY: UINTAH

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESE, 12, T9S, R17E

STATE: UT

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|---|---|---|
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLAIR |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 09/08/2010 | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/STOP) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: - Step Rate Test |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on September 8, 2010. Results from the test indicate that the fracture gradient is .0.764 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 970 psi to 1485 psi.

EPA: UT21019-06970 API: 43-047-35166

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 10/18/2010

(This space for State use only)

**RECEIVED
OCT 25 2010**

DIV. OF OIL, GAS & MINING

Step Rate Test (SRT) Analysis

Date: 09/13/2010

Operator:

Newfield Production Company

Well:

Federal 9-12-9-17

Permit #:

UT21019-06970

Enter the following data :

| | | | |
|---|--------------|------|-------------|
| Specific Gravity (sg) of injectate = | <u>1.015</u> | g/cc | |
| Depth to top perforation (D) = | <u>4588</u> | feet | 4588 |
| Top of permitted injection zone depth (blank=use top perforation to calculate fg) = | | feet | |
| Estimated Formation Parting Pressure (Pfp) from SRT chart = | <u>1490</u> | psi | |
| Instantaneous Shut In Pressure (ISIP) from SRT = | <u>1586</u> | psi | 1490 |
| Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder = | | psi | no downhole |

Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.764 psi/ft.

where: $fg = Pbhp / D$ (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1586

D = depth used = 4588

Pbhp used = 3506

Calculated Bottom Hole Parting Pressure (Pbhp) = 3506 psi

3506.403

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 * SG * D)

(Uses lesser of ISIP or Pfp) Value used = 1490

Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

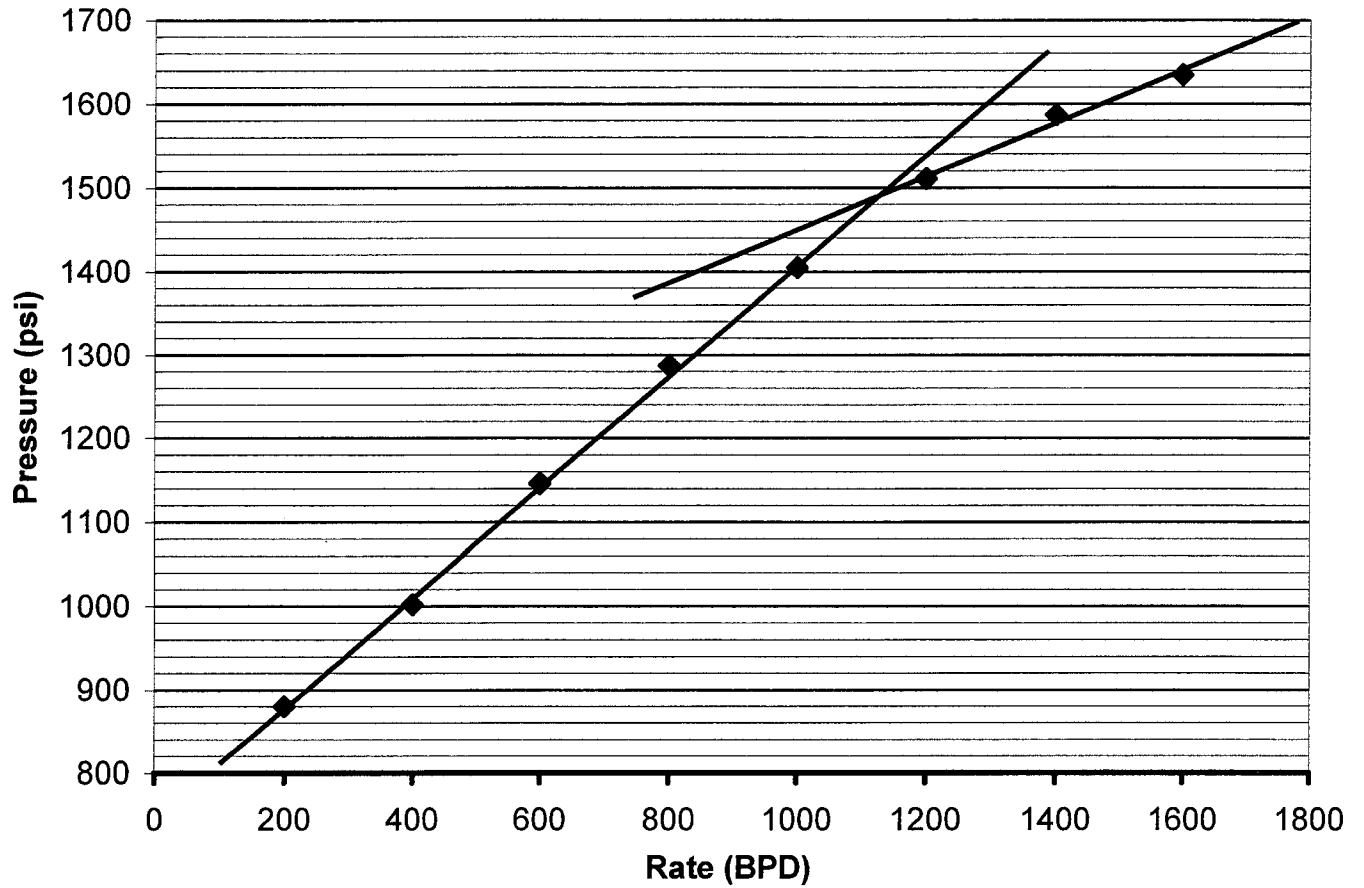
Maximum Allowable Injection Pressure (MAIP) = 1485 psig

D = depth used = 4588

MAIP = $\overline{fg} \cdot (0.433 * SG) * D = 1488.829$

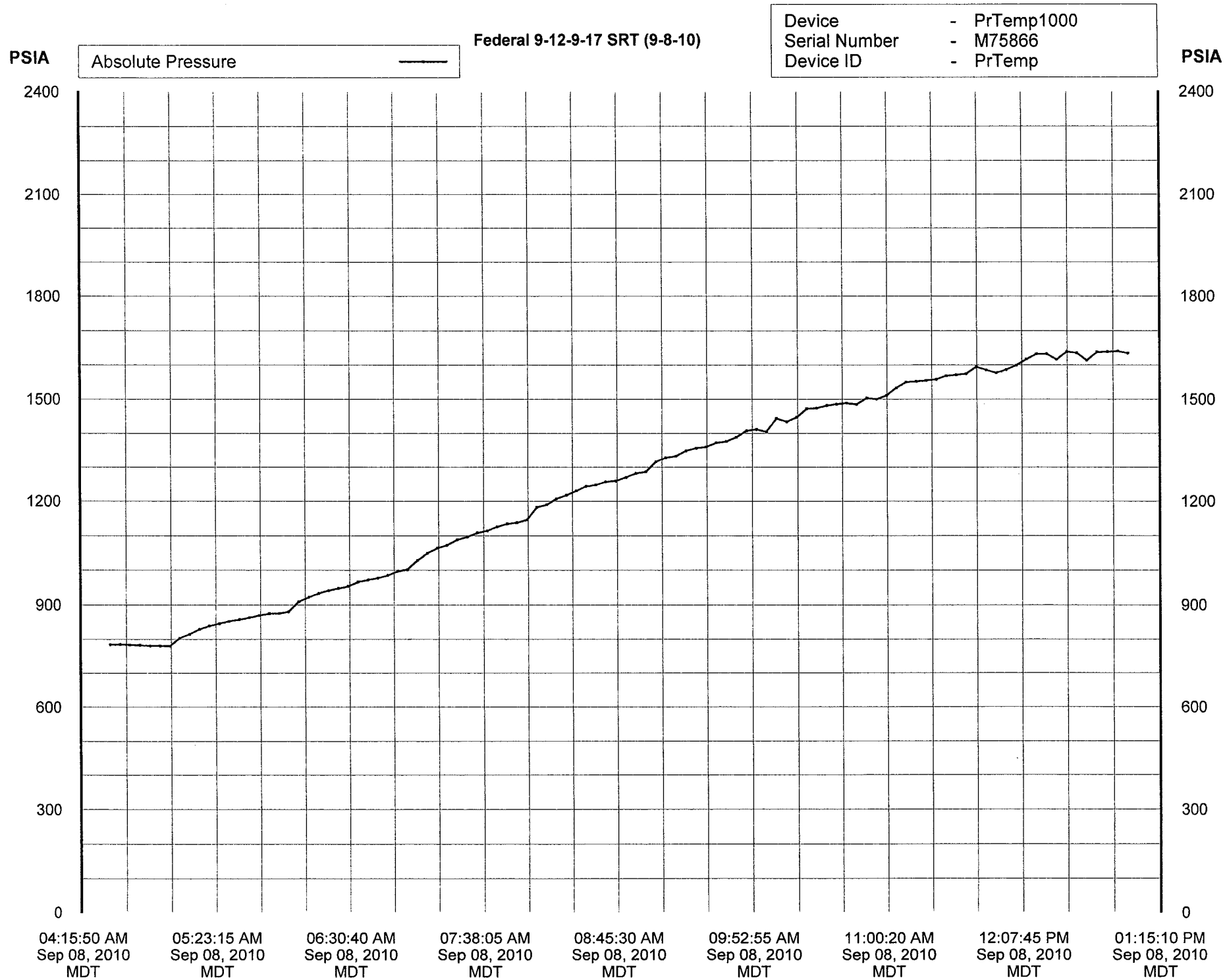
(rounded down to nearest 5 psig)

**Federal 9-12-9-17
Greater Monument Butte Unit
Step Rate Test
September 8, 2010**



Start Pressure: 780 psi
Instantaneous Shut In Pressure (ISIP): 1586 psi
Top Perforation: 4588 feet
Fracture pressure (P_{fp}): 1490 psi
FG: 0.764 psi/ft

| Step | Rate(bpd) | Pressure(psi) |
|------|-----------|---------------|
| 1 | 200 | 880 |
| 2 | 400 | 1002 |
| 3 | 600 | 1146 |
| 4 | 800 | 1287 |
| 5 | 1000 | 1405 |
| 6 | 1200 | 1511 |
| 7 | 1400 | 1587 |
| 8 | 1600 | 1635 |



| | |
|------------------------|---|
| Report Name: | PrTemp1000 Data Table |
| Report Date: | Sep 10, 2010 11:46:25 AM MDT |
| File Name: | C:\Program Files\PTC® Instruments 2.00\Federal 9-12-9-17 SRT (9-8-10).csv |
| Title: | Federal 9-12-9-17 SRT (9-8-10) |
| Device: | PrTemp1000 - Temperature and Pressure Recorder |
| Hardware Revision: | REV2C (64K) |
| Serial Number: | M75866 |
| Device ID: | PrTemp |
| Data Start Date: | Sep 08, 2010 04:30:01 AM MDT |
| Data End Date: | Sep 08, 2010 01:00:00 PM MDT |
| Reading Rate: | 2 Seconds |
| Readings: | 1 to 103 of 103 |
| Last Calibration Date: | May 22, 2009 |
| Next Calibration Date: | May 22, 2010 |

| <u>Reading</u> | <u>Date and Time (MDT)</u> | <u>Absolute Pressure</u> | <u>Annotation</u> |
|----------------|----------------------------|--------------------------|-------------------|
| 1 | Sep 08, 2010 04:30:01 AM | 784.400 | PSIA |
| 2 | Sep 08, 2010 04:34:59 AM | 785.200 | PSIA |
| 3 | Sep 08, 2010 04:40:00 AM | 783.800 | PSIA |
| 4 | Sep 08, 2010 04:45:00 AM | 782.800 | PSIA |
| 5 | Sep 08, 2010 04:50:00 AM | 780.800 | PSIA |
| 6 | Sep 08, 2010 04:55:01 AM | 780.800 | PSIA |
| 7 | Sep 08, 2010 05:00:00 AM | 780.200 | PSIA |
| 8 | Sep 08, 2010 05:05:01 AM | 802.600 | PSIA |
| 9 | Sep 08, 2010 05:10:00 AM | 814.400 | PSIA |
| 10 | Sep 08, 2010 05:15:01 AM | 829.200 | PSIA |
| 11 | Sep 08, 2010 05:20:00 AM | 838.800 | PSIA |
| 12 | Sep 08, 2010 05:25:00 AM | 845.600 | PSIA |
| 13 | Sep 08, 2010 05:30:00 AM | 852.400 | PSIA |
| 14 | Sep 08, 2010 05:35:02 AM | 857.600 | PSIA |
| 15 | Sep 08, 2010 05:40:00 AM | 863.200 | PSIA |
| 16 | Sep 08, 2010 05:45:01 AM | 869.600 | PSIA |
| 17 | Sep 08, 2010 05:50:01 AM | 874.800 | PSIA |
| 18 | Sep 08, 2010 05:55:01 AM | 875.200 | PSIA |
| 19 | Sep 08, 2010 06:00:00 AM | 880.200 | PSIA |
| 20 | Sep 08, 2010 06:04:59 AM | 908.800 | PSIA |
| 21 | Sep 08, 2010 06:10:01 AM | 921.800 | PSIA |
| 22 | Sep 08, 2010 06:15:00 AM | 933.000 | PSIA |
| 23 | Sep 08, 2010 06:20:01 AM | 941.200 | PSIA |
| 24 | Sep 08, 2010 06:25:00 AM | 947.600 | PSIA |
| 25 | Sep 08, 2010 06:30:00 AM | 953.800 | PSIA |
| 26 | Sep 08, 2010 06:35:00 AM | 966.000 | PSIA |
| 27 | Sep 08, 2010 06:40:00 AM | 972.000 | PSIA |
| 28 | Sep 08, 2010 06:45:00 AM | 977.000 | PSIA |
| 29 | Sep 08, 2010 06:49:59 AM | 985.000 | PSIA |
| 30 | Sep 08, 2010 06:55:00 AM | 997.200 | PSIA |
| 31 | Sep 08, 2010 06:59:59 AM | 1001.800 | PSIA |
| 32 | Sep 08, 2010 07:05:01 AM | 1028.400 | PSIA |
| 33 | Sep 08, 2010 07:09:59 AM | 1049.600 | PSIA |
| 34 | Sep 08, 2010 07:15:02 AM | 1064.400 | PSIA |
| 35 | Sep 08, 2010 07:20:00 AM | 1073.200 | PSIA |
| 36 | Sep 08, 2010 07:25:00 AM | 1088.000 | PSIA |
| 37 | Sep 08, 2010 07:30:00 AM | 1097.400 | PSIA |
| 38 | Sep 08, 2010 07:35:00 AM | 1108.200 | PSIA |
| 39 | Sep 08, 2010 07:40:00 AM | 1113.800 | PSIA |
| 40 | Sep 08, 2010 07:45:00 AM | 1125.400 | PSIA |
| 41 | Sep 08, 2010 07:50:00 AM | 1134.400 | PSIA |
| 42 | Sep 08, 2010 07:55:00 AM | 1138.000 | PSIA |
| 43 | Sep 08, 2010 08:00:01 AM | 1146.000 | PSIA |
| 44 | Sep 08, 2010 08:05:01 AM | 1182.000 | PSIA |
| 45 | Sep 08, 2010 08:10:00 AM | 1189.600 | PSIA |
| 46 | Sep 08, 2010 08:15:00 AM | 1207.000 | PSIA |
| 47 | Sep 08, 2010 08:20:00 AM | 1217.200 | PSIA |
| 48 | Sep 08, 2010 08:25:03 AM | 1229.800 | PSIA |
| 49 | Sep 08, 2010 08:29:59 AM | 1243.400 | PSIA |
| 50 | Sep 08, 2010 08:35:01 AM | 1247.600 | PSIA |
| 51 | Sep 08, 2010 08:39:59 AM | 1257.200 | PSIA |
| 52 | Sep 08, 2010 08:45:00 AM | 1259.600 | PSIA |
| 53 | Sep 08, 2010 08:50:01 AM | 1270.000 | PSIA |
| 54 | Sep 08, 2010 08:55:01 AM | 1282.200 | PSIA |
| 55 | Sep 08, 2010 09:00:01 AM | 1287.000 | PSIA |
| 56 | Sep 08, 2010 09:05:00 AM | 1316.600 | PSIA |
| 57 | Sep 08, 2010 09:10:01 AM | 1328.000 | PSIA |
| 58 | Sep 08, 2010 09:15:00 AM | 1332.800 | PSIA |
| 59 | Sep 08, 2010 09:20:01 AM | 1348.600 | PSIA |
| 60 | Sep 08, 2010 09:24:59 AM | 1356.400 | PSIA |

| | | | |
|-----|--------------------------|----------|------|
| 61 | Sep 08, 2010 09:30:01 AM | 1360.600 | PSIA |
| 62 | Sep 08, 2010 09:35:01 AM | 1372.600 | PSIA |
| 63 | Sep 08, 2010 09:40:01 AM | 1376.400 | PSIA |
| 64 | Sep 08, 2010 09:45:01 AM | 1388.800 | PSIA |
| 65 | Sep 08, 2010 09:50:00 AM | 1407.600 | PSIA |
| 66 | Sep 08, 2010 09:55:01 AM | 1411.600 | PSIA |
| 67 | Sep 08, 2010 10:00:00 AM | 1404.600 | PSIA |
| 68 | Sep 08, 2010 10:05:01 AM | 1443.600 | PSIA |
| 69 | Sep 08, 2010 10:10:00 AM | 1434.200 | PSIA |
| 70 | Sep 08, 2010 10:15:01 AM | 1447.800 | PSIA |
| 71 | Sep 08, 2010 10:20:01 AM | 1472.600 | PSIA |
| 72 | Sep 08, 2010 10:25:01 AM | 1474.200 | PSIA |
| 73 | Sep 08, 2010 10:30:01 AM | 1481.800 | PSIA |
| 74 | Sep 08, 2010 10:35:01 AM | 1485.800 | PSIA |
| 75 | Sep 08, 2010 10:40:01 AM | 1488.800 | PSIA |
| 76 | Sep 08, 2010 10:45:00 AM | 1485.000 | PSIA |
| 77 | Sep 08, 2010 10:50:01 AM | 1503.000 | PSIA |
| 78 | Sep 08, 2010 10:55:00 AM | 1499.800 | PSIA |
| 79 | Sep 08, 2010 11:00:01 AM | 1510.600 | PSIA |
| 80 | Sep 08, 2010 11:05:01 AM | 1532.800 | PSIA |
| 81 | Sep 08, 2010 11:10:01 AM | 1549.800 | PSIA |
| 82 | Sep 08, 2010 11:15:01 AM | 1552.200 | PSIA |
| 83 | Sep 08, 2010 11:20:00 AM | 1554.600 | PSIA |
| 84 | Sep 08, 2010 11:25:01 AM | 1557.800 | PSIA |
| 85 | Sep 08, 2010 11:30:00 AM | 1568.200 | PSIA |
| 86 | Sep 08, 2010 11:35:01 AM | 1571.000 | PSIA |
| 87 | Sep 08, 2010 11:40:00 AM | 1574.400 | PSIA |
| 88 | Sep 08, 2010 11:45:01 AM | 1595.000 | PSIA |
| 89 | Sep 08, 2010 11:50:01 AM | 1585.200 | PSIA |
| 90 | Sep 08, 2010 11:55:01 AM | 1577.000 | PSIA |
| 91 | Sep 08, 2010 12:00:01 PM | 1586.600 | PSIA |
| 92 | Sep 08, 2010 12:05:00 PM | 1599.000 | PSIA |
| 93 | Sep 08, 2010 12:10:01 PM | 1616.800 | PSIA |
| 94 | Sep 08, 2010 12:15:00 PM | 1632.200 | PSIA |
| 95 | Sep 08, 2010 12:20:01 PM | 1632.800 | PSIA |
| 96 | Sep 08, 2010 12:25:00 PM | 1616.400 | PSIA |
| 97 | Sep 08, 2010 12:30:01 PM | 1638.600 | PSIA |
| 98 | Sep 08, 2010 12:35:01 PM | 1635.600 | PSIA |
| 99 | Sep 08, 2010 12:40:01 PM | 1613.800 | PSIA |
| 100 | Sep 08, 2010 12:45:01 PM | 1637.800 | PSIA |
| 101 | Sep 08, 2010 12:50:00 PM | 1639.200 | PSIA |
| 102 | Sep 08, 2010 12:55:01 PM | 1640.600 | PSIA |
| 103 | Sep 08, 2010 01:00:00 PM | 1634.800 | PSIA |

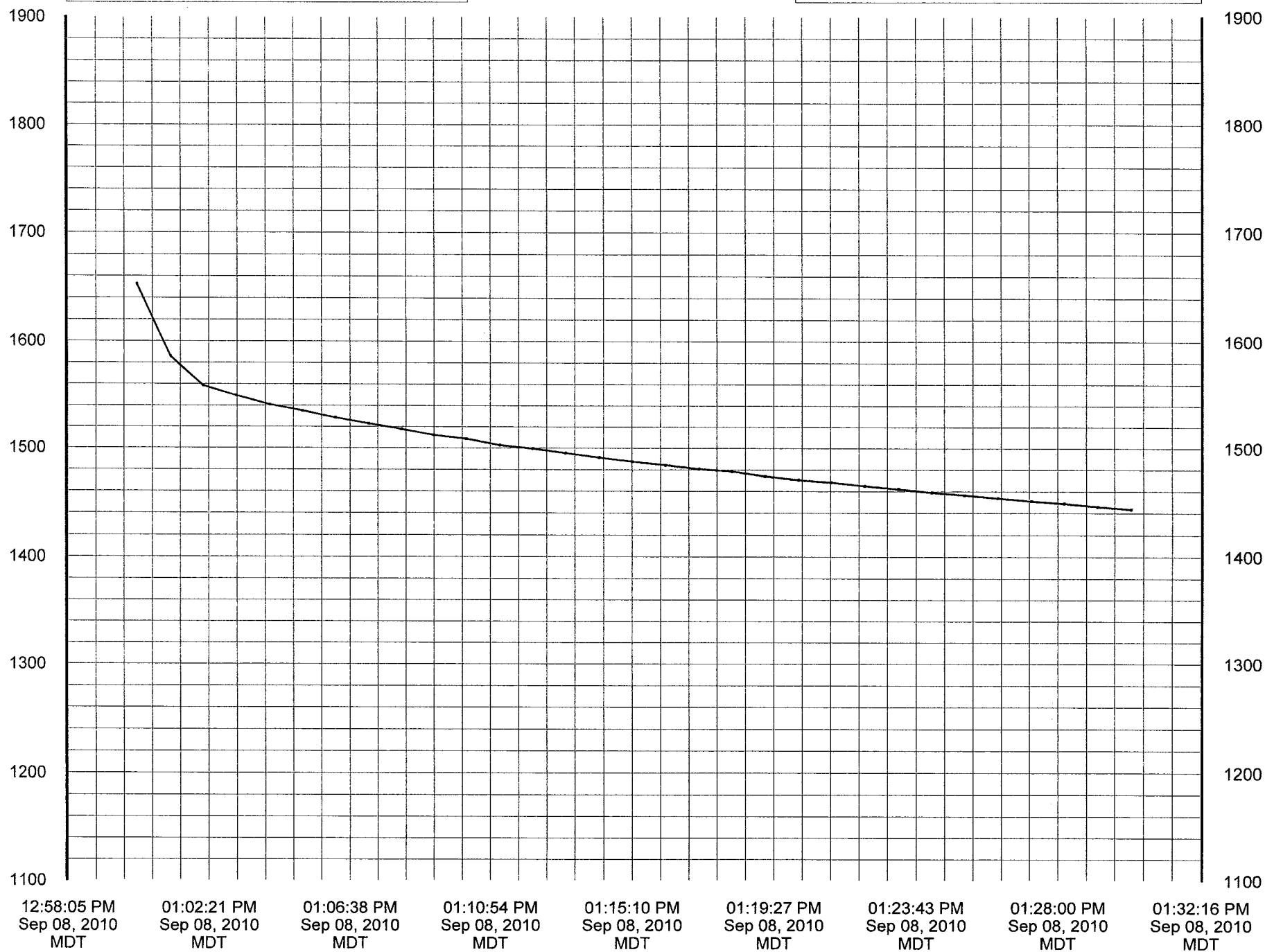
PSIA

Absolute Pressure

Federal 9-12-9-17 ISIP (9-8-10)

Device - PrTemp1000
Serial Number - M75866
Device ID - PrTemp

PSIA



Report Name: PrTemp1000 Data Table
 Report Date: Sep 10, 2010 11:46:17 AM MDT
 File Name: C:\Program Files\PTC® Instruments 2.00\Federal 9-12-9-17 ISIP (9-8-10).csv
 Title: Federal 9-12-9-17 ISIP (9-8-10)
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: M75866
 Device ID: PrTemp
 Data Start Date: Sep 08, 2010 01:00:11 PM MDT
 Data End Date: Sep 08, 2010 01:30:12 PM MDT
 Reading Rate: 2 Seconds
 Readings: 1 to 31 of 31
 Last Calibration Date: May 22, 2009
 Next Calibration Date: May 22, 2010

| <u>Reading</u> | <u>Date and Time (MDT)</u> | <u>Absolute Pressure</u> | <u>Annotation</u> |
|----------------|----------------------------|--------------------------|-------------------|
| 1 | Sep 08, 2010 01:00:11 PM | 1652.600 PSIA | |
| 2 | Sep 08, 2010 01:01:12 PM | 1585.600 PSIA | |
| 3 | Sep 08, 2010 01:02:11 PM | 1558.600 PSIA | |
| 4 | Sep 08, 2010 01:03:11 PM | 1549.400 PSIA | |
| 5 | Sep 08, 2010 01:04:12 PM | 1540.800 PSIA | |
| 6 | Sep 08, 2010 01:05:11 PM | 1535.000 PSIA | |
| 7 | Sep 08, 2010 01:06:11 PM | 1528.600 PSIA | |
| 8 | Sep 08, 2010 01:07:12 PM | 1523.000 PSIA | |
| 9 | Sep 08, 2010 01:08:12 PM | 1517.800 PSIA | |
| 10 | Sep 08, 2010 01:09:11 PM | 1512.200 PSIA | |
| 11 | Sep 08, 2010 01:10:11 PM | 1508.400 PSIA | |
| 12 | Sep 08, 2010 01:11:12 PM | 1502.600 PSIA | |
| 13 | Sep 08, 2010 01:12:11 PM | 1499.400 PSIA | |
| 14 | Sep 08, 2010 01:13:11 PM | 1495.400 PSIA | |
| 15 | Sep 08, 2010 01:14:12 PM | 1491.200 PSIA | |
| 16 | Sep 08, 2010 01:15:11 PM | 1487.400 PSIA | |
| 17 | Sep 08, 2010 01:16:11 PM | 1484.200 PSIA | |
| 18 | Sep 08, 2010 01:17:12 PM | 1480.600 PSIA | |
| 19 | Sep 08, 2010 01:18:11 PM | 1478.400 PSIA | |
| 20 | Sep 08, 2010 01:19:11 PM | 1474.000 PSIA | |
| 21 | Sep 08, 2010 01:20:12 PM | 1470.600 PSIA | |
| 22 | Sep 08, 2010 01:21:11 PM | 1468.400 PSIA | |
| 23 | Sep 08, 2010 01:22:11 PM | 1465.000 PSIA | |
| 24 | Sep 08, 2010 01:23:12 PM | 1462.200 PSIA | |
| 25 | Sep 08, 2010 01:24:12 PM | 1459.200 PSIA | |
| 26 | Sep 08, 2010 01:25:11 PM | 1456.600 PSIA | |
| 27 | Sep 08, 2010 01:26:11 PM | 1453.800 PSIA | |
| 28 | Sep 08, 2010 01:27:12 PM | 1451.200 PSIA | |
| 29 | Sep 08, 2010 01:28:11 PM | 1449.000 PSIA | |
| 30 | Sep 08, 2010 01:29:11 PM | 1446.000 PSIA | |
| 31 | Sep 08, 2010 01:30:12 PM | 1443.600 PSIA | |

Federal 9-12-9-17 Rate Sheet (9-8-10)

| | | | | | | | |
|-----------------|-------|--------|--------|--------|--------|--------|--------|
| <i>Step # 1</i> | Time: | 5:05 | 5:10 | 5:15 | 5:20 | 5:25 | 5:30 |
| | Rate: | 200.6 | 200.6 | 200.5 | 200.5 | 200.5 | 200.5 |
| | Time: | 5:35 | 5:40 | 5:45 | 5:50 | 5:55 | 6:00 |
| | Rate: | 200.4 | 200.4 | 200.4 | 200.4 | 200.4 | 200.3 |
| <i>Step # 2</i> | Time: | 6:05 | 6:10 | 6:15 | 6:20 | 6:25 | 6:30 |
| | Rate: | 400.4 | 400.4 | 400.4 | 400.4 | 400.3 | 400.3 |
| | Time: | 6:35 | 6:40 | 6:45 | 6:50 | 6:55 | 7:00 |
| | Rate: | 400.3 | 400.2 | 400.2 | 400.1 | 400.1 | 400.1 |
| <i>Step # 3</i> | Time: | 7:05 | 7:10 | 7:15 | 7:20 | 7:25 | 7:30 |
| | Rate: | 600.5 | 600.5 | 600.5 | 600.4 | 600.4 | 600.4 |
| | Time: | 7:35 | 7:40 | 7:45 | 7:50 | 7:55 | 8:00 |
| | Rate: | 600.4 | 600.3 | 600.3 | 600.3 | 600.2 | 600.2 |
| <i>Step # 4</i> | Time: | 8:05 | 8:10 | 8:15 | 8:20 | 8:25 | 8:30 |
| | Rate: | 800.5 | 800.5 | 800.4 | 800.4 | 800.4 | 800.4 |
| | Time: | 8:35 | 8:40 | 8:45 | 8:50 | 8:55 | 9:00 |
| | Rate: | 800.3 | 800.3 | 800.3 | 800.3 | 800.2 | 800.2 |
| <i>Step # 5</i> | Time: | 9:05 | 9:10 | 9:15 | 9:20 | 9:25 | 9:30 |
| | Rate: | 1000.6 | 1000.5 | 1000.5 | 1000.4 | 1000.4 | 1000.4 |
| | Time: | 9:30 | 9:40 | 9:45 | 9:50 | 9:55 | 10:00 |
| | Rate: | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.2 | 1000.2 |
| <i>Step # 6</i> | Time: | 10:05 | 10:10 | 10:15 | 10:20 | 10:25 | 10:30 |
| | Rate: | 1200.5 | 1200.5 | 1200.5 | 1200.4 | 1200.4 | 1200.4 |
| | Time: | 10:35 | 10:40 | 10:45 | 10:50 | 10:55 | 11:00 |
| | Rate: | 1200.3 | 1200.3 | 1200.2 | 1200.2 | 1200.1 | 1200.1 |
| <i>Step # 7</i> | Time: | 11:05 | 11:10 | 11:15 | 11:20 | 11:25 | 11:30 |
| | Rate: | 1400.7 | 1400.7 | 1400.6 | 1400.6 | 1400.6 | 1400.6 |
| | Time: | 11:35 | 11:40 | 11:45 | 11:50 | 11:55 | 12:00 |
| | Rate: | 1400.5 | 1400.5 | 1400.5 | 1400.5 | 1400.4 | 1400.4 |
| <i>Step # 8</i> | Time: | 12:05 | 12:10 | 12:15 | 12:20 | 12:25 | 12:30 |
| | Rate: | 1600.4 | 1600.4 | 1600.4 | 1600.4 | 1600.3 | 1600.3 |
| | Time: | 12:35 | 12:40 | 12:45 | 12:50 | 12:55 | 1:00 |
| | Rate: | 1600.3 | 1600.2 | 1600.1 | 1600.1 | 1600.1 | 1600 |

| | | |
|---|---|---|
| STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | | FORM 9 |
| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-39713 |
| 1. TYPE OF WELL Water Injection Well | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | | 7. UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 | | 8. WELL NAME and NUMBER: FEDERAL 9-12-9-17 |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 12 Township: 09.0S Range: 17.0E Meridian: S | | 9. API NUMBER: 43047351660000 |
| 9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH | | COUNTY: UINTAH |
| STATE: UTAH | | |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | | |
| TYPE OF SUBMISSION | TYPE OF ACTION | |
| <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: | <input type="checkbox"/> ACIDIZE | |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/16/2015 | <input type="checkbox"/> ALTER CASING | |
| <input type="checkbox"/> SPUD REPORT Date of Spud: | <input type="checkbox"/> CASING REPAIR | |
| <input type="checkbox"/> DRILLING REPORT Report Date: | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | |
| | <input type="checkbox"/> CHANGE WELL STATUS | |
| | <input type="checkbox"/> CHANGE TUBING | |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | |
| | <input type="checkbox"/> CONVERT WELL TYPE | |
| | <input type="checkbox"/> DEEPEN | |
| | <input type="checkbox"/> FRACTURE TREAT | |
| | <input type="checkbox"/> NEW CONSTRUCTION | |
| | <input type="checkbox"/> OPERATOR CHANGE | |
| | <input type="checkbox"/> PLUG AND ABANDON | |
| | <input type="checkbox"/> PLUG BACK | |
| | <input type="checkbox"/> PRODUCTION START OR RESUME | |
| | <input type="checkbox"/> RECLAMATION OF WELL SITE | |
| | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION | |
| | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | |
| | <input type="checkbox"/> SIDETRACK TO REPAIR WELL | |
| | <input type="checkbox"/> TEMPORARY ABANDON | |
| | <input type="checkbox"/> TUBING REPAIR | |
| | <input type="checkbox"/> VENT OR FLARE | |
| | <input type="checkbox"/> WATER DISPOSAL | |
| | <input type="checkbox"/> WATER SHUTOFF | |
| | <input type="checkbox"/> SI TA STATUS EXTENSION | |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | |
| | <input checked="" type="checkbox"/> OTHER | |
| | OTHER: <input type="text" value="5 YR MIT"/> | |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 06/16/2015 the casing was pressured up to 1089 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1337 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06970 | | |
| Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 23, 2015 | | |
| NAME (PLEASE PRINT) Lucy Chavez-Naupoto | PHONE NUMBER 435 646-4874 | TITLE Water Services Technician |
| SIGNATURE N/A | DATE 6/17/2015 | |

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____

Date: 06 / 16 / 2015Test conducted by: Troy Lazenby

Others present: _____

| | | |
|--|---|------------------|
| Well Name: <u>Federal 9-12-9-17</u> | Type: ER SWD | Status: AC TA UC |
| Field: <u>Monument Butte</u> | | |
| Location: <u>NE/SE</u> Sec: <u>12</u> T <u>9</u> N <u>18</u> R <u>17</u> E | County: <u>Uintah</u> | State: <u>UT</u> |
| Operator: <u>NEWFIELD EXPLORATION</u> | | |
| Last MIT: <u>1</u> / <u>1</u> | Maximum Allowable Pressure: <u>1425</u> | PSIG |

Is this a regularly scheduled test?

☒ Yes ☐ No

Initial test for permit?

☐ Yes ☒ No

Test after well rework?

☐ Yes ☒ No

Well injecting during test?

☒ Yes ☐ NoIf Yes, rate: 72 bpdPre-test casing/tubing annulus pressure: 0 / 1337 psig

| MIT DATA TABLE | Test #1 | Test #2 | Test #3 |
|------------------------|--|---|---|
| TUBING | PRESSURE | | |
| Initial Pressure | <u>1337</u> psig | psig | psig |
| End of test pressure | <u>1337</u> psig | psig | psig |
| CASING / TUBING | ANNULUS | PRESSURE | |
| 0 minutes | <u>1089</u> psig | psig | psig |
| 5 minutes | <u>1089</u> psig | psig | psig |
| 10 minutes | <u>1089</u> psig | psig | psig |
| 15 minutes | <u>1089</u> psig | psig | psig |
| 20 minutes | <u>1089</u> psig | psig | psig |
| 25 minutes | <u>1089</u> psig | psig | psig |
| 30 minutes | <u>1089</u> psig | psig | psig |
| _____ minutes | psig | psig | psig |
| _____ minutes | psig | psig | psig |
| RESULT | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |

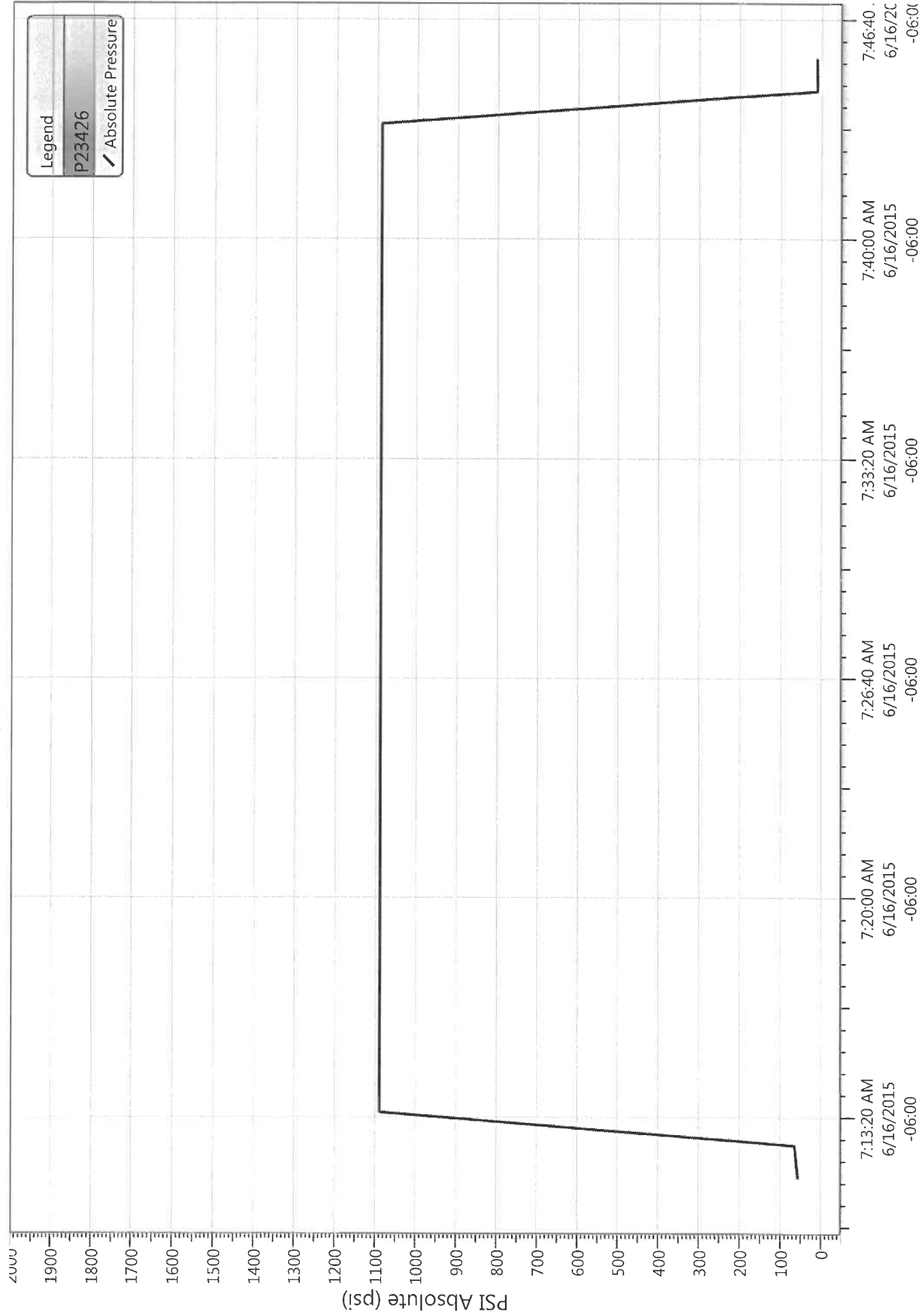
Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____

Federal 9 12 9-17 (5 year)
6/16/2015 7:10:46 AM



Federal 9-12-9-17

Spud Date: 11/11/2004
Put on Production: 1/14/05
GL: 5077' KB: 5089'

Initial Production: BOPD,
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 8 jts (324.63')
DEPTH LANDED: 334.63'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt. Est. 1 bbl cmt to surface.

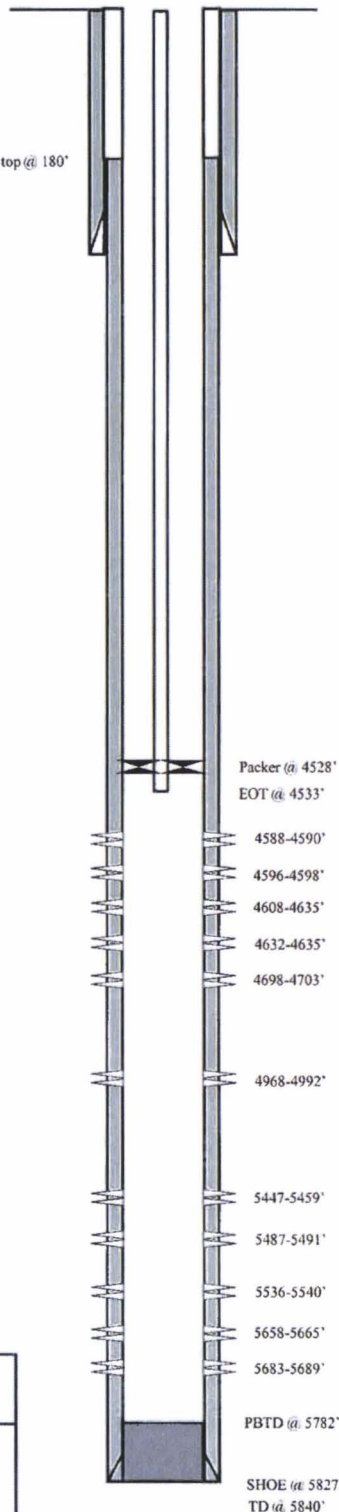
PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 131 jts (5829.18')
DEPTH LANDED: 5827.18'
HOLE SIZE: 7-7/8"
CEMENT DATA: 285 sxs Premilite II and 400 sxs 50/50 POZ.
CEMENT TOP AT: 180'

TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#
NO. OF JOINTS: 135 jts (4512.2')
SEATING NIPPLE: 2 7/8" (1.10')
SN LANDED AT: 4524.2' KB
CE @ 4528.38'
TOTAL STRING LENGTH: EOT @ 4533' w/ 12' KB

Injection Wellbore Diagram



FRAC JOB

1/10/05 5658'-5689' **Frac CPS sands as follows:**
35,666# of 20/40 sand in 354 bbls Lightning 17 fluid. Treated at avg. pressure of 1425 psi with average rate of 24.7 BPM. ISIP - 1700. Calculated flush: 5656 gals. Actual flush: 5699 gals.

1/10/05 5447'-5540' **Frac CP2, 3 and 4 sands as follows:**
63,580# of 20/40 sand in 520 bbls Lightning 17 fluid. Treated at avg. pressure of 1310 psi with average rate of 25.1 BPM. ISIP - 1175. Calculated flush: 5445 gals. Actual flush: 5443 gals.

1/10/05 4968'-4992' **Frac A1 sands as follows:**
105,209# of 20/40 sand in 714 bbls Lightning 17 fluid. Treated at avg. pressure of 1906 psi with average rate of 24.8 BPM. ISIP - 2000. Calculated flush: 4966 gals. Actual flush: 4880 gals.

10/19/06 **Well converted to an Injection well.**

11/8/06 **MIT completed and submitted.**


6/29/10 4588-4703' **Frac D2, D3, & C sands as follows:**
44493# of 20/40 sand in 292 bbls Lightning 17 fluid.

7/2/2010 **Re-Completion - ready for MIT**

7/19/10 **MIT completed**

PERFORATION RECORD

| | | | |
|---------|-------------|-------|----------|
| 1/4/05 | 5683'-5689' | 4 SPF | 24 holes |
| 1/4/05 | 5658'-5665' | 4 SPF | 28 holes |
| 1/10/05 | 5536'-5540' | 4 SPF | 16 holes |
| 1/10/05 | 5487'-5491' | 4 SPF | 16 holes |
| 1/10/05 | 5447'-5459' | 4 SPF | 48 holes |
| 1/10/05 | 4968'-4992' | 4 SPF | 96 holes |
| 6/29/10 | 4698-4703' | 3 SPF | 15 holes |
| 6/29/10 | 4632-4635' | 3 SPF | 9 holes |
| 6/29/10 | 4608-4610' | 3 SPF | 6 holes |
| 6/29/10 | 4596-4598' | 3 SPF | 6 holes |
| 6/29/10 | 4588-4590' | 3 SPF | 6 holes |

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|  |
| Federal 9-12-9-17 1980' FSL & 663' FEL NESE Section 12-T9S-R17E Uintah Co, Utah API # 43-047-35166; Lease # UTU-39713 |